CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, July 28, 1904.

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PERSONAL.

Mr. E. L. Dalton has been elected City Engineer of Dallas, Tex.

Mr. Samuel Huston, of Steubenville, O., formerly County Surveyor of Jefferson County, has been appointed State Highway Commissioner.

Mr. F. W. Warden, President and General Manager of the Burt Mfg. Co., of Akron, O., has just returned from an extended trip in Europe.

Mr. Harry Burgess Roe and Miss Isabel Davis Parker were married at Minneapolis, Minn., July 12. Mr. Roe is a civil engineer and is located at Vancouver.

Mr. Edward Wegmann, M. Am. Soc. C. E., and Mr. John M. Farley, M. Am. Soc. C. E., have opened an office at No. 5 Court St., White Plains, N. Y., as Consulting Engineers.

Mr. J. L. Wickes, Assoc. M. Am. Soc. C. E., Commissioner of Street Cleaning of Baltimore, Md., has been commissioned Colonel and Aide de Camp to the Governor of Maryland.

Mr. S. M. Dixon, Professor of Physics at Dalhousie College, Halifax, N. S., has been appointed Professor of Civil Engineering of the Civil Engineering School recently established at Dalhousie.

Mr. L. J. McIntyre, formerly Assistant Engineer Illinois Central R., R. at Mattoon, Ill., has been appointed Engineer-in-Charge of Terminal Improvements of the Erie R. R., at Jersey City, N. J.

Mr. Isaac A. Smith, Consult. Engr., and Ch. Engr. Southern Illinois Electric Ry. Co., has opened an office at 150 Nassau St., New York. Mr. Smith also has an office at 721 Olive St., St. Louis, Mo.

Mr. Fred. Crabtree has been appointed Professor of Mining and Metallurgy in the Engineering School of Colorado College, Colorado Springs, Colo. Mr. Crabtree is a graduate of the Massachusetts Institute of Technology.

Mr. H. N. Savage, one of the members of the Consulting Board of Engineers of the U. S. Reclamation Service, has been appointed Government Supervising Engineer for a number of the Northwestern states, and will have his headquarters at Salt Lake City.

Mr. Russell Harding, Vice-President and General Manager of the Missouri Pacific & Iron Mountain, has resigned to accept the Presidency of the Pere Marquette Railroad and Vice-Presidency of the Cincinnati, Hamilton & Dayton and Chicago, Cincinnati & Louisville Railroads.

Mr. and Mrs. Willard D. Lockwood have returned from England where Mr. Lockwood has been engaged during the past year in the construction of an American blast furnace. During the summer he will be engaged in making a connection to the storage reservoir of Rochester, N. Y., with headquarters at Henrietta, N. Y.

Mr. L. F. Goodale has been appointed Engineer Maintenance of Way of the Missouri District of the Chicago, Burlington & Quincy Ry. Co. The position of Chief Engineer of the Missouri Lines has been abolished and the jurisdiction of Mr. W. L. Breckinridge, Chief Engineer, extended over all the lines east of the Missouri River.

Mr. R. M. Jones, C. E., 1455 Josephine St., Denver, Colo., for the past five years Chief Engineer and General Superintendent of the Pike's Peak Power Co., of Victor, Colo., has severed his connection with that company and is now at liberty to take up new work in Hydraulic and Electrical Installations, either in the capacity of Consulting or Construction Engineer.

Mr. H. P. Usher, for many years General Business Manager for The Goulds Mfg. Co., of Seneca Falls, N. Y., manufacturers of pumping machinery of all kinds, has recently severed his connection with that company to engage in business for himself. Mr. Usher will locate in Los Angeles, where he has acquired an interest in the business of the S. J. Smith Machinery Co. A dinner was tendered Mr. Usher July 16 by The Goulds Mfg. Co., which was attended by heads of the various departments. During the evening Mr. Usher was presented with a handsome gold watch and chain, suitably marked, as an evidence of the esteem in which he is held by his associates.

OBITUARY.

W. M. Munroe, a civil engineer of Great Falls, Mont., died recently in that city.

Louis R. Hope, Irrigation Division Engineer of Division No. 1, died in Denver, Colo., July 14.

Jerome Sondericker, Associate Professor of Applied Mechanics at the Massachusetts Institute of Technology, died at Wilmington, Vt., July 22.

William J. Marvin, for 22 years a Bridge Commissioner of Cambridge, Mass., died at his summer home in Beachmont, Mass., July 22. He was 75 years old.

James Addicks died in New Orleans July 24 at the age of 63. He had been in the U. S. Army Engineer Corps and for a short time was an instructor at West Point.

John C. Moorehead, Assistant to President Underwood, of the Erie R. R., died July 19 at his home in Cleveland, O. He was considered one of the most efficient railroad men in the Central West.

George Fordyce Blake, inventor of the Blake Steam Pump, died at his summer home at Phillips Beach, Mass., July 22. He was 85 years old. Mr. Blake secured the patent for his steam pump in 1864, and in 1874 the George F. Blake Manufacturing Co. was formed. In 1890 Mr. Blake sold the business to a syndicate of English capitalists and when they merged it in the International Pump Co. nine years later, he retired.

Alonzo J. Tullock, M. Am. Soc. C. E., proprietor of the Missouri Valley Bridge & Iron Works of Leavenworth, Kans., died in that city July 21. Mr. Tullock was born in Rockford, Ill., in 1854, and graduated as Civil Engineer at Michigan State University in 1876. After working about three years for contractors in the vicinity of Chicago, he removed to Leavenworth, Kans., where during the past 25 years he has worked up a large contracting business under the name of the Missouri Valley Bridge & Iron Works.

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ENGINEERING SOCIETIES.

COMING MEETINGS.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Aug. 16, 17, 18, 1904. Annual convention at Toledo, O. Secy., W. A. Yeach, Newark, O.
SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Sept. 1, 2, 3, 1904. Annual meeting at St. Louis, Mo. Secy., C. A. Waldo, Lafayette, Ind.
SOCIETY OF CHEMICAL INDUSTRY.
Sept. 7 to 12, 1904. Annual meeting at New York, N. Y. Gen'l Secy., C. G. Cresswell, 9 Bridge St., Westminster, London. Secy., New York Section, T. J. Parker, 25 Broad St., New York.
INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.
ROADMASTERS AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo., Secy., C. E. Jones, Beardstown, Ill.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
INSTITUTION OF ELECTRICAL ENGINEERS. (Great Britain.)
Sept. 14, 1904. Joint convention at St. Louis, Mo. Secy. Am. Inst. Elec. E., R. W. Pope, 95 Liberty St., New York.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.
INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.
AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANT'S ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.
RAILWAY SIGNAL ASSOCIATION.
Oct. 11. St. Louis, Mo., Secy., B. B. Adams, 83 Fulton St., New York.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago, Secy., S. F. Patterson, Concord, N. H.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.
IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

SOCIETY OF CHEMICAL INDUSTRY.—The general meeting of this society will be held in America in the current year, and a large delegation of members will come from England to attend the meeting and subsequently make a circular tour through the country, as far west as St. Louis. The meeting itself takes place in New York City, on Sept. 7 to 12, inclusive. All arrangements for this event have been completed by the local committee, of which Mr. Hugo Schweitzer, 40 Stone St., is chairman, and Mr. T. J. Parker, 25 Broad St., New York, is secretary. In outline, the program for the meeting is as follows: An opening reception, informal, is to be held at the house of the Chemists' Club, 108 West 55th St., on the evening of Wednesday, Sept. 7. The following morning the general meeting is held in the gymnasium of Columbia University, at 10.30 a. m. The retiring president, Sir William Ramsay, will read his presidential address on that occasion. The meeting is followed by a luncheon, an automobile ride, and in the evening the annual dinner. This latter will be held at the Waldorf-Astoria, and is to be the most elaborate function of the meeting. The following days are taken up by visits to manufacturing plants in and around New York; for the evening various entertainments have been arranged. A steamer excursion up the Hudson River is planned for Sunday, Sept. 11. The visiting ladies will be specially entertained.

Following the New York meeting is a trip to St. Louis, roughly, on the following schedule: Leaving New York on the morning of Sept. 12, the day is spent in Philadelphia, from where the party goes by night train to Washington and spends Sept. 13 and 14 in that city. Friday and Saturday, Sept. 16 and 17, are devoted to visiting in and around Pittsburg. The party arrives at St. Louis on the afternoon of Sept. 18, and remains there until Sept. 22. Three days are then spent in Chicago, then a day in Detroit, two days in Niagara Falls and Buffalo, and one day in Boston. The entire tour will be made in a special train of Pullman cars. In the various cities to be visited during the trip, local committees have been active in arranging for the fullest utilization of the available time.

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ENGINEERING SCHOOLS.

DALHOUSIE COLLEGE (Halifax, N. S.).—At a meeting of the board of governors of Dalhousie College, July 15, a new school of engineering was established. Prof. S. M. Dixon will occupy the chair of Civil Engineering. Prof. Dixon is a graduate of Trinity College, Dublin, having received in 1890 the degree of bachelor of engineering. After two years' experience in railway construction under Mr. Henry Lovatt, Contractor, on the Great Northern and the Midland Railways, Mr. Dixon was appointed professor of civil engineering in the University of New Brunswick, which position he held until 1901, when he went to Dalhousie College as professor of physics. While in New Brunswick, Prof. Dixon had charge of a considerable amount of work under the provincial engineer.

COLUMBIA UNIVERSITY.—Mrs. James W. Gerard, of New York, the daughter of Marcus Daly, has established in his memory the Marcus Daly Scholarship in the School of Mines of Columbia University.

The scholarship, which is to be awarded on a competitive basis, carries perhaps the largest income of any in the United States, as the recipient is to receive $1,000 per annum. It is open only to those who have worked in the Montana mines or to their descendants. A certificate of eligibility must be obtained from M. R. Dempsey, Chairman of a special committee of the Butte Miners' Union, and must be presented at the time of the entrance examinations. These examinations will be held on Sept. 19 to 24 at the Montana State School of Mines at Butte, under the supervision of Prof. W. G. King. All letters of inquiry should be addressed to Prof. King at Butte.

LEHIGH UNIVERSITY.—The summer terms of the engineering departments, a distinct feature of the course at Lehigh University, are now in active operation, with a total attendance in the various classes of 255.

The students of mechanical engineering have summer instruction for four weeks in June and July for three years of their course, and the students of civil engineering for two years. The former are now engaged in inspection and testing of machinery, both steam and electric, and the latter in field and topographical surveying. Fully 190 students are thus busily at work in South Bethlehem; a party of 42 are surveying in the vicinity of Brodheadsville, Pa.; 13 advanced students in marine engineering are spending a month of inspection and study under a competent instructor at the League Island Navy Yard, and a party of 10 are working in the coal mines near Hazleton.

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CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

ASSISTANT ENGINEER.—Municipal Civil Service Commission of the city of New York will hold an examination Aug. 12 to secure eligibles to fill the position of assistant engineer. Applications will be received by the commission at 61 Elm St., New York, until 4 p. m., Aug. 5. Salary is $1,500 to $2,100. Subjects and weights of the examination are as follows: Technical, 50; experience, 20; mathematics, 15; report, 15.

TOPOGRAPHICAL DRAFTSMAN.—Municipal Civil Service Commission of the city of New York will hold an examination Aug. 10 to secure eligibles to fill the position of topographical draftsman. Applications will be received by the commission at 61 Elm St., New York, up to 4 p. m., Aug. 4. Salary is $1,200 to $1,800 per annum. Subjects and weights of the examination are as follows: Technical, 5; experience, 2; mathematics, 2; handwriting and general neatness, 1.

TRANSITMAN AND COMPUTER.—Municipal Civil Service Commission of the city of New York will hold an examination Aug. 8 to secure eligibles to fill the position of transitman and computer. Minimum age is 21 years; salary, $1,200 to $1,800 per year. Applications will be received by the Civil Service Commission, 61 Elm St., New York, up to 4 p. m., Aug. 4. The subjects and weights of the examination are as follows: Technical, 5; experience, 2; mathematics, 3.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
July				
*28	Power plant	Washington, N. C.	S	7-14
*28	Filtartion plant	Danville, Ky.	S	7-21
*28	Water-wks	Silver Springs, N.Y.	S	7-21
*30	Dredging	Washington, D. C.	S	7- 7
30	Naval Bldg.	Bremerton, Wash.	S	6-30
Aug.				
1	Bridge, steel	Pawtucket, R. I.	P., S. & B. S.	7-21
*3	Water-works	Warrenville, S.C.	P. & S.	7-21
6	Brick bldg.	Boston, Mass.	S	7-21
6	Shops, bldg.	Pensacola, Fla.	S	7- 7
8	Paving, brick	Bluffton, O.	S. & B. S.	7-21
*10	Sewage works	Columbus, O.	P. & S.	7-21
*10	Stand-pipe	Attleboro, Mass.	P. & S.	7-21
*12	Wreck removal	Boston, Mass.	S	7-21
*15	Shore protection	Richmond, Va.	S	7-21
*20	Wreck removal	Wilmington, Del.	S	7-21
27	Dry-dock	New York, N. Y.	S	7-14

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*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

July 28. Electrical apparatus, Front Royal, Va.....July 21
July 28. Electric light plant, Washington, N. C....July 14
Advertised, Eng. News, July 14 to 28.
July 29. Generators, etc., Athens, O. ....July 21
July 29. Electric plant, Camden, N. J...............July 28
July 30. Electric lighting, Spain (Foreign).........July 14
Aug. 1. Street lighting, Salem, Ore................July 14
Aug. 1. Generators, etc., Lexington, Ky. ....July 21
Aug. 1. Engine, dynamo, etc., Benson, Minn......July 28
Aug. 2. Acetylene plant, Ft. Myer, Va.............July 7
Aug. 3. Generators, engines, etc., New York, N. Y. July 28
Aug. 8. Power house, Lancaster, Pa.............July 28
Advertised, Eng. News, July 28.
Aug. 12. Electric franchise, Eureka, Cal..........July 28
Aug. 15. Power house, Moose Jaw, Assa..........July 28
Aug. 22. Electric plant, Burlington, Vt............July 28
Aug. 31. Canal power, Chicago, Ill.................July 14

BRIDGES.

July 28. Bridge, Stockton, Cal......................July 21
July 29. Bridges, Wilkesbarre, Pa.................July 28
July 30. Bridge, Oxford Centre, Ont. ....July 21
July 31. Bridge, Sobieski, Wis.....................Jun. 23
Advertised, Eng. News, Jun. 23 to July 14.
Aug. 1. Bridge, steel, Chillicothe, O. ....July 21
Aug. 1. Bridge, plate girder, Pawtucket, R. I....July 21
Advertised, Engineering News, July 21.
Aug. 1. Bridges, Newark, O. ....July 21
Aug. 1. Bridge, Rock Island, Ill...................July 21
Aug. 2. Bridges, Bloomfield, Ind. ....July 21
Aug. 2. Bridges, Crawfordsville, Ind. ....July 21
Aug. 2. Bridge, abutments, Versailles, Ind........July 14
Aug. 2. Bridge, Harrisburg, Pa ....July 28
Aug. 2. Bridges, Bloomington, Ind...............July 28
Aug. 3. Bridge, steel, Oroville, Cal..............July 28
Aug. 3. Bridge, stone, Santa Rosa, Cal...........July 28
Aug. 3. Bridge, Madison, Ind.......................July 28
Aug. 3. Bridge, repair, Lafayette, Ind............July 28
Aug. 3. Bridge, Riverside, Cal. ....July 21
Aug. 4. Bridges, Fargo, N. Dak. ....July 21
Aug. 4. Culvert, concrete, Des Moines, Ia.......July 21
Aug. 4. Bridges, Brownstown, Ind. ....July 21
Aug. 4. Bridge, Goldendale, Wash...............July 28
Aug. 5. Bridges, stone, Washington, D. C........July 28
Aug. 6. Bridge, abutments, Marshall, Minn.......July 28
Aug. 6. Bridge, steel, Marion, Ind................July 14
Aug. 8. Bridge, Glasgow, Mont. ....July 21
Aug. 8. Bridges, steel, Wabash, Ind..............July 21
Aug. 9. Bridge, Indianapolis, Ind. ....July 21
Aug. 9. Bridge, Steamboat Springs, Colo.........July 21
Advertised, Eng. News, July 21 to Aug. 14.
Aug. 15. Bridges, concrete, Rockport, Ind........July 28
Aug. 15. Bridge, steel, Atlanta, Ga...............July 28
Aug. 16. Bridges, Ottawa, Kan......................July 28
Aug. 18. Bridge, South Bend, Ind.................July 28
Dec. 1. Bridge superstructure, Manila, P. I......July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

July 28. Workhouse, New York, N. Y..............July 14
July 28. Heating and ventilating, Salt Lake City...July 7
July 28. Vacuum heating, Chicago, Ill............July 21
July 29. Plumbing, Kings Park, N. Y..............July 21
Advertised, Eng. News, July 21 and 28.
July 29. Heating, etc., New York, N. Y...........July 28
July 30. Jail plans, Bisbee, Ariz. ....Jun. 30
July 30. Naval building, Bremerton, Wash..........Jun. 30
Aug. 1. Post office, Marysville, Ky. ....Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
Aug. 1. Jail, Aberdeen, Miss. ....Jun. 23
Aug. 1. Laundry, Rome, N. Y. ....July 21
Aug. 2. School building, Davenport, Ia. ....July 14
Aug. 2. Post office, Pierre, S. Dak ....Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
Aug. 2. Laundry, etc., Washington, D. C.........July 14
Aug. 2. Building, Raleigh, N. C....................July 28
Aug. 3. Buildings, Gallipolis, O....................July 28
Aug. 3. Mechanical equipment, Washington, D. C..July 21
Advertised, Eng. News, July 21 and 28.
Aug. 4. Court house, Winona, Miss................July 21
Aug. 4. Post office bldg., Hutchison, Kan.........July 7
Aug. 4. Jail, etc., Brownstown, Ind...............July 28
Aug. 4. Building, Cleveland, O....................July 28
Aug. 6. Shops, building., Pensacola, Fla..........July 7
Aug. 6. Brick bldg., Boston, Mass.................July 21
Aug. 8. Post office, Pekin, Ill. ....July 7
Advertised, Eng. News, July 7 to 21.
Aug. 8. Hospital, Sheridan, Wyo...................July 28
Aug. 9. Court house, Two Harbors, Minn........July 28
Aug. 10. Building, Peoria, Ill.......................July 28
Aug. 11. Partitions, plumbing, New York, N. Y....July 28
Aug. 12. Library, Cleveland, O.....................July 28
Aug. 15. Electric wiring, Lawrence, Mass.........July 28
Aug. 15. City hall, Moose Jaw, Assa..............July 28
Aug. 15. Electric wiring, Lawrence, Mass.........July 21
Aug. 15. School, East St. Louis, Ill...............July 21
Aug. 16. Court house, Somerset, Pa...............July 28
Aug. 17. Armory, Xenia, O.........................July 28
Aug. 18. Post office, Wausau, Wis...............July 14
Aug. 20. Hospital, etc., Ft. Totten, N. Y..........July 28
Advertised, Eng. News, July 28 to Aug. 18.
Aug. 22. Court house, Florence, S. C..............July 21
Advertised, Eng. News, July 21 and 28.
Aug. 25. Cathedral plans (Foreign), Roumania......July 7
Aug. 29. Post office, Moberly, Mo..................July 21
Sept. 10. High school, Missoula, Mont. ....Jun. 30
Sep. 17. Schools, etc., Oakland, Cal...............July 28

WATER SUPPLY AND IRRIGATION.

July 28. Water-works, Frederic, Wis...............July 14
July 28. Water-works, Danville, Ky.................July 14
Advertised, Eng. News, July 14 and 21.
July 28. Water pipe, Silver Springs, N. Y.........July 21
July 29. Water mains, Camden, N. J...............July 28
Aug. 1. Water-works (Foreign), Austria-Hungary. July 7
Aug. 1. Tunnel, Lorain, O.........................July 14
Aug. 2. Water supply imprvmts, Philadelphia, Pa. July 21
Advertised, Eng. News, July 21 and 28.
Aug. 2. Intake tunnel, Philadelphia, Pa..........July 28
Aug. 3. Pumping station, Galveston, Tex..........July 28
Aug. 3. Water-works, Warrenville, S. C. ....July 21
Advertised, Eng. News, July 21 and 28.
Aug. 3. Water-works, Rockport, O.................July 14
Aug. 8. Pumping engine, Brandon, Man.........July 14
Advertised, Eng. News, July 14 and 21.
Aug. 10. Water pipe, etc., Columbus, O. ....July 21
Advertised, Eng. News, July 21 to Aug. 4.
Aug. 10. Stand-pipe, Attleboro, Mass...............July 21
Advertised, Eng. News, July 21 and 28.
Aug. 10. Water and light plant, Springfield, Tenn..July 28
Advertised, Eng. News, July 28.
Aug. 12. Pumping engine, Kansas City, Mo........July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 12. Tower, tank and reservoir, Libertyville, Ill. July 28
Aug. 15. Meters, Winnipeg, Man.................July 28
Advertised, Eng. News, July 28.
Aug. 15. Engine, Waukon, Ia.......................July 28
Advertised, Eng. News, July 28.
Aug. 15. Franchise, water pipes, Pinole, Cal......July 14
Aug. 18. Water supply and electric light, Italy....Apr. 21
Advertised, Eng. News, Apr. 14 to May 5.
Aug. 18. Reservoir, pipe, etc., Fort Meade, S.Dak...July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 21. Water distribution system, Prescott, Ariz. July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 22. Pipe, pumping stations, etc., Crajova, Roumania ....July 28
Aug. 27. Distributing system, Prescott, Ariz......July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 30. Cast-iron pipes, Java (Foreign).........July 14
Advertised, Eng. News, July 14 and 28.
Sept. 19. Water pipe, Victoria, B. C...............July 21
No date. Water-works, Russellville, Ky. ....Jun. 23
Advertised, Eng. News, June 23 and 30.

SEWERAGE.

July 28. Sewers, Woonsocket, R. I.................July 14
Advertised, Eng. News, July 14 and 28.
Aug. 1. Sewers, Weehawken, N. J...............July 28
Aug. 1. Sewers, Corning, N. Y.....................July 21
Advertised, Eng. News, July 21 and 28.
Aug. 1. Sewers, Norristown, Pa...................July 21
Aug. 1. Sewers, Ventura, Cal. ....July 21
Aug. 2. Sewers, Hamilton, O......................July 21
Aug. 2. Sewer, Monticello, Ind. ....July 21
Aug. 2. Drain, etc., Roanoke, Va..................July 7
Advertised, Eng. News, July 7 to Aug. 4.
Aug. 2. Sewers, Harrison, N. J...................July 28
Aug. 2. Sewers, Lorain, O........................July 28
Aug. 3. Sewers, Chicago, Ill.......................July 28
Aug. 3. Sewers, Corning, Ia.......................July 28
Aug. 3. Sewers, Fond du Lac, Wis...............July 28
Aug. 4. Sewers, Lorain, O.........................July 28
Aug. 5. Sewers, Janesville, Wis. ....July 21
Aug. 6. Sewers, Anadarko, Okla..................July 21
Aug. 8. Sewage disposal, etc., Washington, D. C..July 14
Advertised, Engineering News, July 14.
Aug. 9. Sewers, De Pere, Wis.....................July 28
Aug. 10. Pumping plant, Columbus, O. ....July
Advertised, Eng. News, July 21 to Aug. 11.
Aug. 13. Sewer works, East St. Louis, Ill. ....July
Aug. 15. Sewage system, Washington, D. C.......July
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 17. Sewers, Springfield, Ill....................July
Advertised, Eng. News, July 28.
Aug. 18. Sewers, Reading, Pa......................July
Aug. 20. Sewers, Lewistown, Pa....................July
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 22. Sewage system, Washington, D. C........July
Advertised, Eng. News, July 28 and Aug. 4.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

STREETS AND ROADS.

July 28. Paving, brick, Wilmette, Ill. ....July 2
July 28. Paving, etc., New York. ....July 2
July 28. Paving, etc., Champaign, Ill..............July 2
Advertised, Engineering News, July 21.
July 29. Roads, Jefferson Barracks, Mo...........July 21
July 30. Roads, Greenville, O. ....July
July 30. Road, Chattanooga, Tenn..................July 2
July 30. Road, Bedford, O.........................July 2
Aug. 1. Sidewalks, cement, Canon City, Colo....July 2
Aug. 1. Paving, etc., Indianapolis, Ind...........July 2
Aug. 1. Road, Vernon, Ind..........................July 2
Aug. 1. Paving, etc., Albany, N. Y...............July 28
Aug. 1. Paving, etc., Long Island City, N. Y....July 28
Aug. 1. Paving and curbing, Ashland, Ky........July 2
Aug. 1. Sidewalks, White Plains, N. Y..........July 2
Aug. 1. Paving, vitrified brick, Toledo, O........July 7
Aug. 1. Road, macadam, Salem, Ind..............July 21
Aug. 1. Paving, Creston, Ia. ....July 21
Aug. 1. Macadamizing, Johnstown, N. Y.........July 21
Aug. 1. Sidewalks, cement, Anderson, O. ....July 21
Aug. 1. Paving and curbing, Jacksonville, Ill....July 21
Aug. 1. Paving, macadam, Springfield, O.........July 21
Aug. 1. Paving, etc., McKees Rocks, Pa...........July 21
Aug. 2. Road, macadam, Middletown, Del........July 21
Aug. 2. Macadamizing, Lawrenceburg, Ind.......July 21
Aug. 2. Roads, gravel, Brazil, Ind. ....July 21
Aug. 2. Macadamizing, Paterson, N. J...........July 21
Advertised, Eng. News, July 21 to Aug. 4.
Aug. 2. Roads, Napoleon, O. ....July 7
Aug. 2. Paving, concrete, Lebanon, O............July 28
Aug. 3. Paving, wood blocks, New York, N. Y....July 28
Aug. 3. Paving, brick, Cincinnati, O..............July 14
Aug. 4. Grading, etc., New York, N. Y............July 28
Aug. 4. Roads, Bedford, Ind.........................July 28
Aug. 4. Paving, Oneida, N. Y.......................July 28
Aug. 5. Roads, Paoli, Ind. ....July 21
Aug. 5. Macadamizing, Tiffin, O. ....July 21
Aug. 6. Sidewalks, White Hall, Ill. ....July 21
Aug. 8. Walks, etc., Ft. Douglas, Utah. ....July 21
Aug. 8. Road, Harrisburg, Pa. ....July 21
Aug. 8. Paving, vitrified brick, Bluffton, O.......July 21
Aug. 8. Road, macadam, Manchester, Conn.......July 28
Aug. 8. Road, Bradford, Pa.........................July 28
Aug. 9. Paving, Ironton, O..........................July 28
Aug. 9. Curbing, Medina, O. ....July 21
Aug. 10. Paving, etc., Ottumwa, Ia. ....July 21
Aug. 11. Grading, Oswego, N. Y...................July 14
Advertised, Eng. News, July 14 to Aug. 11.
Aug. 11. Paving, Ironton, O........................July 28
Aug. 11. Paving, vitrified brick, Des Moines, Ia....July 28
Aug. 11. Curbing, Portland cement, Des Moines, Ia. July 28
Aug. 12. Roads, Albany, N. Y......................July 28
Aug. 16. Paving, etc., Fremont, O.................July 28
Advertised, Eng. News, July 28.
Aug. 18. Paving, brick, Minerva, O. ....July 21
No date. Paving, brick, Morris, Ill.................July 21
Advertised, Eng. News, July 21 to Oct. 13.
No date. Paving, etc., Aspinwall, Pa..............July 28

MISCELLANEOUS CONTRACTS.

July 28. Concrete culvert, Richmond, Va. ....Jun. 30
Advertised, Eng. News, Jun. 30 to July 21.
July 28. Supplies, Memphis, Tenn..................July 14
Advertised, Eng. News, July 14 and 21.
July 28. Levee work, Memphis, Tenn..............July 14
Advertised, Eng. News, July 14 and 21.
July 28. Garbage disposal, New Bedford, Mass......July 21
July 29. Dock repairs, New York, N. Y.............July 21
Advertised, Engineering News, July 21.
July 29. Steelwork, South Africa (Foreign)........July 14
July 30. Dredging, Washington, D. C. ....July 7
July 31. Sugar factory, Zululand (Foreign).......July 14
Aug. 1. Tunnel, Lorain, O.........................July 14
Aug. 1. Ditch, Chaska, Minn.......................July 14
Aug. 1. Dredging, Portland, Me. ....July 7
Advertised, Eng. News, July 7 to Aug. 4.
Aug. 1. School work, New York, N. Y...........July 21
Aug. 2. Garbage furnace, Crafton, Pa............July 28
Aug. 4. Cut stone, Chicago, Ill....................July 28
Aug. 5. Lock gates, Egypt (Foreign)..............July 14
Aug. 7. Levee work, Shreveport, La.............July 21
Aug. 8. Vessel yard, Duluth, Minn...............July 14
Advertised, Eng. News, July 14 to Aug. 11.
Aug. 9. Breakwater, Washington, D. C...........July 7
Aug. 9. Machine tools, Washington, D. C. ......July 21
Aug. 9. Boiler-mechanical draft plant, West Point. July 21
Advertised, Eng. News, July 21 to Aug. 11.
Aug. 10. Conduit material, Baltimore, Md.........July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 12. Wreck removal, Boston, Mass.............July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 15. Shore protection, Richmond, Va.........July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 15. Rolling stock, Siam (Foreign) ....Apr. 21
Aug. 15. Canal, bridges, etc., Port Huron, Mich..July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 16. Wharves, Cuba ....July 28
Aug. 16. Fire brick, pig iron, etc., Washington, D.C. July 21
Aug. 17. Locks, dams, Vicksburg, Miss............Jun. 16
Advertised, Eng. News, Jun. 16 to July 28.
Aug. 17. Locks and dams, Vicksburg, Miss.........Jun. 23
Advertised, Eng. News, Jun. 23 to Aug. 18.
Aug. 18. Stone placing, Portland, Me. ....July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 20. Wreck removal, Wilmington, Del. ....July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 22. Canal, New Orleans, La.................July 14
Aug. 23. Machine tools, Washington, D. C. ......July 21
Aug. 24. Excavating, cofferdams, Chicago, Ill. ....Jun. 30
Aug. 24. Sea wall, Galveston, Tex...............July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 25. Cement, Minidoka, Idaho. ....July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 27. Dry-dock, New York, N. Y.............July 14
Sept. 6. Dam, etc., Roswell, N. Mex. ....July 21
Advertised, Eng. News, July 21 to Sept. 1.
Oct. 15. Plans for harbor, Sweden (Foreign)......Apr. 21

RAILWAYS.

CHESAPEAKE & OHIO.—Amended articles have been filed by this company increasing its capital stock from $12,228,900 to $12,550,000 and consolidating all of its branches in Kentucky. C. E. Doyle is Gen. Mgr., Richmond, Va.

DENVER & INTERMOUNTAIN.—Salt Lake, Utah, press reports state that the old Denver, Lakewood & Golden has been reorganized as the Denver & Intermountain by Samuel Newhouse and others. The company will extend the road to various mining properties. Another line is projected from Vernon Summit to the summit of Lookout Mountain. It is also proposed to build a line to Boulder, Loveland, Longmont and Fort Collins, and to the northern boundary of Colorado, and to build a line from Loveland to Greeley.

GEORGIA.—The "Hall Bill" was passed by the House on July 13. It is "an act to prohibit any person or persons or association of persons to operate any railroad in this state or to maintain any railroad along or across any public roads or streets in this state, or to obstruct any public roads or streets in this state, with the tracks of the railroads or buildings or structures of any charter, unless the said person or persons or association of persons operating said railroad shall first become incorporated under the general laws of this state for the incorporation of railroad companies and to provide penalties for the violation of this act and for other purposes."

GUELPH & GODERICH RY.—This company is reported advertising for bids for work on eight sections, each 10 miles in length, between Guelph and Goderich. Address, the Engineer's Office, in Guelph, Que.

ILLINOIS CENTRAL.—Bowles & Hemingway, railroad contractors, of Jackson, Miss., have been awarded the contract for the construction of the new branch of the Illinois Central road from Brookhaven, Miss., to Monticello, Lawrence County, a distance of about 40 miles. They are now making arrangements for the active commencement of work, and will have charge of the grading only, the rail laying to be done by the company.

MT. STERLING SHORT LINE.—W. M. Beckner, of Winchester, Ky., writes us that surveys for this line have been made and right-of-way guaranteed by Mt. Sterling citizens. Road was recently incorporated with $250,000 capital stock by W. M. Beckner, E. S. Jouett, P. J. Altizer and B. R. Jouett, all of Winchester. The road will be built from Mt. Sterling, through the County of Montgomery into Clark, to connect with the line of the Lexington and Eastern Railway Co., at Indian Fields. Contracts probably will be let this summer. Length of line is about nine miles.

NEW YORK, NEW HAVEN & HARTFORD.—Louis Haffen, Pres. Bronx Borough, New York, has approved plans for the elimination of about 20 grade crossings in this borough and Westchester County and for the addition of a third track for express service on the New Rochelle division of this road. Work is shortly to be begun on a $3,000,000 improvement of line.

NORTH CAROLINA.—The Cliffsides Mills Co., Cliffside, N. C., will build a railroad 4 miles in length at a cost of $3,750 per mile. Ladshaw & Ladshaw, civil engineers, have completed the survey.

PHILADELPHIA TERMINAL.—Application has been made for a charter to build a 28-mile railroad in Chester and Delaware counties. One line will run from the western terminus of the Market Street Elevated Railroad Co., at 63d and Market Sts., Philadelphia, to Williston, Chester County, and the other from the same terminus to Eddystone, Delaware County. Capital, $280,000. Clarence Wolf, Philadelphia, is Pres. Samuel J. Boyle, Jr., Frank A. Barnett and others are interested.

SOMERSET RY.—Henry F. Hill, Ch. Engr., Augusta, Me. writes us that final location is now finished to Austin Dead Water, about 10 miles north of Bingham, Me. Contract for building this section has been awarded to Mitchell & Johnson, of Oakland, Me. Construction begins at once. Preliminary surveys are now in progress between Austin Dead Water and Birch Point, opposite the Kineo House, on Moosehead Lake. It is intended to build 45 miles of road next season. Total length of extension, Bingham to Birch Point, about 55 miles, all through a heavily timbered country. One 500 ft. steel viaduct, 120 ft. high; one 300 ft. span, and several small span steel bridges will be required. Henry F. Hill, Augusta, Me., is Ch. Engr.

ST. LOUIS SOUTHWESTERN.—This company has filed an application with the Railroad Commission of Texas for authority to issue bonds on its extension from Lufkin, southeast, 26 miles, to amount of $600,000; 22 miles of this line was the former Texas & Louisiana Ry., and 4 miles have recently been constructed. It is the intention of the company to shortly extend its line southeast to the Sabine River and south to either Orange or Beaumont. M. L. Lynch is Ch. Engr., Tyler, Tex.

TALLAHASSEE SOUTHEASTERN.—This railroad has changed its name, and will be operated under the name of the Florida and Grand Trunk Ry. I. L. Thomas is Supt., Tallahassee, Fla.

WABASH.—A classification yard will be built upon the gravity plan for handling freight cars, at Greentree, outside of Pittsburg. The site comprises 110 acres and there will be 10 tracks. The company may expend $2,000,000 more for Pittsburg improvements.

NEW INCORPORATIONS AND CHARTERS.

ADAIR COUNTY RY.—Mo.—Company has been chartered to build a line five miles long from Youngstown on the Iowa & St. Louis Railroad to a point in section six of Adair county. Directors are J. G. Trimble, E. M. Hollins, W. S. Thompson, Thomas A. Irwin and L. Underwood, all of Kansas City, Mo.

ARKANSAS ANTHRACITE RY.—Ark.—A charter has been granted to this company for 66 miles of track to be built from Fort Smith to Clarksville, at a cost of $20,000 per mile. The company is capitalized at $1,320,000. W. J. Echols, Pres.; W. H. H. Shibley, Vice-Pres.; Cliff Speer, Treas.; Charles E. Stoaks, Gen. Mgr.

DANVILLE & NORTHERN.—Ill.—Company has been chartered with $25,000 capital. Principal office, Danville. Line will be constructed from the south line of Vermillion County, Ill., through the Counties of Vermillion, Iroquois, Kankakee and Will, to a point on the north line of Will County. Incorporators: L. E. Fisher, George T. Buckingham, and others, all of Danville, Ill.

DE KALB & SOUTHWESTERN.—Ill.—This company has been chartered. Principal office at De Kalb; capital, $10,000. It will be a terminal railway connecting railways in De Kalb County. Incorporators: R. F. Shellabarger, E. E. Watson, Judson Brenner and A. W. Fisk of De Kalb, Ill., R. C. Caples of New York, N. Y.

KANSAS CITY, TULSA & SOUTHWESTERN.—Okla.—Company, with headquarters at Oklahoma City, and with $2,000,000 capital stock, has been chartered to build road 250 miles long, to run from a point on the Iron Mountain, in the Choctaw nation, to Wichita Falls, Tex. It will pass through the Cherokee, Creek, Seminole and Choctaw nations in Indian Territory and the counties of Pottawatomie, Lincoln, Cleveland, Oklahoma and Comanche in Oklahoma, and Clay and Wichita, in Texas. Provision is made for a branch line from Shawnee to Oklahoma City. The incorporators are: Jay Forsythe, C. B. Lynch, W. A. Cook and others.

NORTHERN AND SOUTHERN ILLINOIS RY.—Ill.—This company has been incorporated with capital stock of $25,000 and the principal office in Chicago. The incorporation calls for the construction of a line from Centralia to Herrin. Dwight Lawrence, T. P. Sheldon, R. S. Folsom, J. R. Philip and C. A. Folsom, all of Chicago, are the incorporators and directors.

RAHWAY VALLEY.— N. J.—Company has been incorporated with an authorized capital stock of $250,000. The company will construct and operate six miles of railroad from New Orange to Summit, connecting there with the Delaware, Lackawanna and Western. Incorporators: Louis Keller, of Springfield, N. J.; H. F. Dankel, of Roselle, N. J.; W. Irving Scott, of Brick Church, N. J.; N. C. J. English; of Elizabeth, George B. Frost, of Newark, and Charles Webb and Edward Thompson of New York.

TONOPAH & TIDEWATER.—N. J.—This company has been incorporated with an authorized capital of $1,000,000. Incorporators are F. M. Smith, Oakland, Cal.; C. B. Zabriskie, New York. The company is authorized to do a general construction business.

STREET AND ELECTRIC RAILWAYS.

MANCHESTER, N. H.—The Manchester Traction, Light & Power Co. will double-track its Goff's Falls line from the gas house bridge to the Elm St. terminus. Work will be started at once. J. M. Smith, City, is Gen. Mgr.

LOCKPORT, N. Y.—The John R. Lee Electrical Construction Co. has been incorporated with $300,000, with offices at Rochester. The company will build the electric trolley line from Rochester to Lockport and Niagara Falls. The directors are: John R. Lee, Paterson, N. J.; John D. Lazell, New York, and E. S. McNaul, Philadelphia, Pa.

LITTLE FALLS, N. Y.—Following the trackage agreements between the Vanderbilt railroads and Syracuse and Utica electric lines, the first stretch of steam road to be equipped with electricity will be the West Shore between Utica and Syracuse.

DARBY, PA.—The Philadelphia Rapid Transit Co. has been granted permission to enter the borough. W. S. Twining, Ch. Engr., writes us that the contract for portion outside of city limits has been let to E. M. Harris, of Darby, and the portion inside of city limits will be built by the company.

PITTSBURG, PA.—Promoters of the Pittsburg & Allegheny Valley Street Ry. Co. have asked Council for franchise to enter town. The line will run through Vandergrift, Leechburg and Hyde Park and if present franchise is granted, right of way will be asked in Parnassus and Arnold. From Parnassus the line will follow the Allegheny River and connect at Oakmont with the trolley line that runs to Pittsburg.

POTTSTOWN, PA.—The Pottstown & Brady Street Ry. Co. announces an extension of its line from Douglassville to Manatawny Creek, and from Douglassville to Pottstown.

ORANGE, N. J.—It is reported that an electric road is to be built from Orange to Morristown.

WILMINGTON, DEL.—The right of way for the Delaware Suburban Ry. Co. from this city to Elkton, Md., has been secured. Work will be commenced at once. The line will begin either at Fifth and Market or Fifth and King Sts., run out Fifth to Clayton, thence to the city line and then via Marshallton and Newark to Elkton. Eventually it is intended to extend the line to Oxford, Pa., a further distance of 15 miles. The power house will be located near Newark and a high potential current will be used, which will be reduced at several stations by rotary transformers into the usual current of 550 volts which will be used on the line. Ricketts Nelson, of Elkton, Md., is Secy.

BOXLEY, GA.—An electric railroad will be constructed from this place to Reidsville. Dr. Phil H. Comas, of this place, and others are interested.

BIRMINGHAM, ALA.—It is understood that the Birmingham Railway, Light & Power Co. is contemplating extending its Tuxedo line to Sherman Heights. R. Jemison is Pres.

COLUMBUS, MISS.—A company to be composed of local and foreign capitalists, through their representative, Col. T. J. O'Neil, has asked for a franchise to construct a power house and one mile of line. The franchise will undoubtedly be granted by the Council and the line will be built at an early date.

VICKSBURG, MISS.—Vicksburg Electric Light & Power Co. are contemplating extending their system of street railways here. E. E. Bullis, City, is Supt.

NASHVILLE, TENN.—H. M. Gross, 319 Park Bldg., Pittsburg, Pa., Pres. Nashville & Columbia Electric Ry. Co., writes us that the contracts for constructing 55 miles of road will be let about Sept. 1. The line will start at Nashville and pass through Brentwood, Franklin, Thompson, Spring Hill, Columbia and Mount Pleasant. W. D. Miller, of Sewickley, Pa., is Ch. Engr.

WINONA LAKE, IND.—The Winona Interurban Ry. Co. has incorporated with $10,000 cap. stock. The road will connect Warsaw, Goshen and Wabash. The directors are: J. M. Studebaker, South Bend; H. J. Heinz, Pittsburg; Sol. C. Dickey, Indianapolis, et al.

MONROE, WIS.—Geo. W. Bowman has petitioned the Council for a 20-year franchise for a city street railway. It is part of a projected system of 83 miles of track, reaching out six miles into the country in four directions.

FOND DU LAC, WIS.—The directors of the Fond du Lac & Northeastern Electric Railway are in conference with the representatives of Eastern capitalists who have promised to purchase the bonds of the company. The company has voted an issue of $1,750,000 in bonds to build the road, which will be 61 miles in length.

JANESVILLE, WIS.—The preliminary survey of the line between Madison and Janesville for the Southern Wisconsin interurban road has been completed. Two lines have been run. One road runs from Janesville to Milton and thence to Edgerton, and the other along the river to Indian Ford and thence to Madison. It will make connections with the Madison city line. Construction is expected to begin Aug. 1. Franchises have been granted in Edgerton and Stoughton.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MARSHALLTOWN, IA.—The work of the survey of the Marshalltown Electric, Street & Interurban Ry. Co.'s has been started. C. M. Tomlinson, Ch. Engr., of J. G. White & Co., Const. Engrs., 43 Exchange Place, New York, is in charge of work.

OTTAWA, KAN.—Ottawa has granted a franchise through Main St. to the proposed electric line from Kansas City. The line must be completed from Kansas City through Ottawa in 18 months or the franchise will be forfeited. Hugh A. Holmes, who is promoting the enterprise, is now at work securing right of way between here and Wellsville.

BURLINGAME, KAN.—Survey has been started for the proposed Kansas City, Burlingame & Western Electric Railway.

GANDY, NEB.—The electric railway company that is to build a line from Broken Bow to Gandy filed articles of incorporation in the office of Secretary of State. The company has an authorized capital stock of $1,000,000. Jacob Miller is at the head of company. The electrical line is to be built by the Loup Valley Electrical Railroad Co. The object of this company is to build a line of road from Broken Bow west to Arnold, thence west to Garfield in Lincoln County, and thence north to Gandy in Logan County. The company's principal place of business is to be the town of Arnold, Custer County. The line will run almost west from Broken Bow to Gandy. The incorporators are Jacob Miller, B. E. Robinson, C. T. Halliday and others.

PORT ARTHUR, TEX.—The Pleasure Pier Traction Co. has been organized here for the purpose of constructing and operating a suburban electric railway, electric power plant and union depot. John A. Young is one of the incorporators.

FORT WORTH, TEX.—The Northern Texas Traction Co. will soon let a contract to increase the present size and capacity of the power house at Lake Erie. F. M. Haines, City, is Gen. Mgr.

SPOKANE, WASH.—Active work for the proposed electric railway between this city and Davenport has been started. A surveying party was sent out by the Spokane Power & Transportation Co. and the work began at the head of the Spokane River. The ground between this point and Davenport, a distance of 26 miles, will be traversed and a route chosen. Work on the 45 miles connecting the line with Spokane may then begin. No definite route has yet been chosen, but the line will probably run direct from the head of the river to Davenport, through Egypt.

SAN JOSE, CAL.—An electric railway from this city to Mount Hamilton is being projected, and a company of local capitalists is being organized to do the preliminary work and float a bond issue. The matter has been taken up by the Chamber of Commerce.

TORONTO, ONT.—The Toronto & Hamilton Electric Ry. Co. propose to construct an underground crossing under the tracks of the C. P. R. and the Grand Trunk at Toronto Junction and enter Toronto from the northwest. W. T. Jennings is Ch. Engr.

LIGHT, HEAT AND POWER PLANTS.

BURLINGTON, VT.—Bids will be received at office of City Clerk until Aug. 22 for labor, material and equipment necessary for installation of complete electric plant of 250 KW. capacity. Plans, specifications and instructions to bidders may be seen at the following offices of the Engineering News: 220 Broadway, New York; 170 Summer St., Boston, Mass.; 1636 Monadnock Block, Chicago, Ill. W. H. Freedman, Consult. Engr.; Edward E. Morgan, Hyman G. Willard, Thomas Reeves, Comrs. (Advertised, Engineering News.)

WINSTED, CONN.—A company in which Winsted and New Hartford capitalists are interested will shortly be formed to generate electricity at Pleasant Valley, in the town of Barkhamsted. The intention is to transmit power for lighting and power purposes to surrounding towns. Options on needed land and water rights are now being obtained. A dam 200 ft. long will be built from one side of Ragged Mountain to the other, and fully 200 acres of land will be flooded for power development.

DESPATCH, N. Y.—Despatch Heat, Light & Power Co. has been incorporated to manufacture light, heat and power. Capital, $500,000. Andrew H. Brown and Wilson W. Dowd, of Penfield, and E. H. Denniston, of Brockport, are the incorporators.

BUFFALO, N. Y.—Reports state that the Niagara County Irrigation & Water Supply Co. has filed plans at Lockport for new power canal that will cost $10,000,000. The route of proposed canal is from La Salle, where it takes in the water of Niagara River, to the Devil's Hole, below the falls, where there is a drop of 300 ft. A power house will be located at Devil's Hole that will produce 150,000 HP. The company is operating under a charter procured in 1891.

NEW YORK, N. Y.—Plans have been filed with the Building Department for the construction of a power house for the New York Central & Hudson River Railway Co. It will be located on 149th St., 95 ft. west of Long Island Sound. Three stories in height, 236 x 167 ft.; superstructure will be of granite, brick and terra cotta, with framework of steel. C. W. Smith, the Architect for the railroad company, will have charge of the work. It will cost about $500,000. Contract for the foundation, that will be of concrete, has been awarded to D. C. Weeks & Son, of 289 Fourth Ave. This station is to furnish electricity for running all of the trains through the New York Central tunnel and from the Grand Central Station as far north as the Bronx. Another station will be built at Yonkers on the Hudson River, it is reported.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, Room 1536, 13-21 Park Row, Manhattan Boro., until Aug. 3 for furnishing and installing the steam engines, generators and electric wiring at the Jameco and Springfield pumping stations, and electric wiring at the Ridgewood pumping station and Mount Prospect reservoir and tower, including lamps, fixtures, switchboards and other appurtenances, complete, in Brooklyn Boro. John T. Oakley, Comr.

MIDDLEVILLE, N. Y.—Articles incorporating the Middleville Electric Light Co. have been filed. It is proposed to manufacture and use electricity for producing light, heat and power, and in lighting streets and buildings in this village and in the towns of Fairfield, Newport and Herkimer. Capital stock, $4,000. Lewis H. Goodman, David E. Ford and Anna M. Goodman, of Middleville, are interested.

CAMDEN, N. J.—Bids are asked by Water Committee of Council until July 29 for installing an electric light plant, to cost $2,180, at the Morris Station of the waterworks. Dynamo and engine must be of the General Electric Light Co.'s type.

NEWARK, N. J.—The Miller Electric Co. has been incorporated to manufacture and sell electric light, heat and power for public and private use and "carry on any other business in which the application of electricity or any like power is or may be useful, convenient or ornamental." The principal business office will be at 16 William St. Capital stock, $100,000. Incorporators are Alexander A. Miller, August J. Miller and Edward H. Scattergood.

HANOVER, PA.—Geo. D. Gitt is at the head of a company that recently secured a franchise for a central heating plant at this place. Plans have been prepared and he is reported ready to receive bids on construction and equipment.

LANCASTER, PA.—Bids are asked until Aug. 8 for erection of masonry power house, bulk head, structural iron work and concrete work, on Conestoga River, about 12 miles from this place. Edward D. Ruth, Lancaster. (Advertised, Engineering News.)

PITTSBURG, PA.—Council has passed resolution authorizing that plans be prepared and bids asked for remodeling electric light plant.

ALLEGHENY, PA.—The Committee on Public Works of Allegheny Councils has approved a resolution for the employment of an architect to prepare plans and supervise the reconstruction and remodeling of the city electric light plant, recently destroyed by fire. The compensation of the architect will be not more than 5% of the total cost of the work.

FREDERICK, MD.—The Frederick Gas Co. and the West End Gas & Electrical Co., of Frederick, have merged into one company here, under the name of the Frederick Gas & Electrical Co. Directors are: Jacob Rohrback, Charles P. Levy, Charles Wertheimer and others, of Frederick; Francis K. Carey, of Baltimore; Charles L. Serrill and Robert C. Cookman, of Philadelphia. Capital stock, $200,000.

BALTIMORE, MD.—The Consolidated Gas Co., Charles and Centre Sts., will erect two iron and steel oil tanks, 100 ft. in diam. and 30 ft. high, at Fort Ave. and Leadenhall St. Cost, $18,000.

ALEXANDRIA, VA.—Bid of Charles F. Thompson, City, to buy the present city electric light plant and also a 30-year franchise for electric lighting and power, has been accepted by Council.

SUFFOLK, VA.—Home Acetylene Gas Co., of Lynchburg, Va., has applied for franchise to establish gas plant. Adam Umholtz is Gen. Mgr.

FORT MILL, S. C.—J. M. Spratt, reported last week as interested in establishing an electric light plant here, is in the market for electric plant equipment.

GRIFFIN, GA.—City has voted to issue $35,000 in bonds for improving and extending the light and water plants.

GAINESVILLE, GA.—Gen. A. J. Warner has deeded 100 acres of land on the Chattahoochee River, including the Averbee shoals and the exclusive right to the water power at the shoals to the North Georgia Electric Co. The territory where these shoals are situated is on the Chattahoochee River just above the mouth of the Chestatee. The deed carries with it the right to erect a dam 8 ft. high at the top of the shoals, and it is reported that the company will immediately build another dam on this property.

BAINBRIDGE, GA.—An election has been called for August 8th, at which the proposition to issue $20,000 of bonds for a municipal electric plant or the purchase of the plant now furnishing light to the city, will be voted upon.

FLORENCE, ALA.—Charles B. Kelsey, Pres. Commercial Savings Bank, Grand Rapids, Mich., and C. H. Geist, Pres. of the Michigan City & Northern Indiana Gas Co. and of the South Shore Gas & Electric Co., have purchased plant of Gas Light Co. here. A new company will be organized, with $150,000 capital. Extensive improvements to plant are reported to be contemplated.

ABBEVILLE, ALA.—City will vote Aug. 8 on the issuance of $20,000 of bonds for constructing water-works and electric light plant. Robert Newman, Mayor.

TALLADEGA, ALA.—Talladega Electric Co. has been incorporated, with $50,000 capital, to construct and operate cotton gins and grist mills and to furnish electric power for them and other enterprises. Incorporators, Geo. W. Chambers, Joe S. Chambers and George O. Chambers.

BOONEVILLE, MISS.—Citizens' Electric Light & Telephone Co. has been organized and will arrange at once for the erection of electric plant and the installation of telephone exchange.

WOODVILLE, MISS.—The city will issue bonds for the erection of an electric light plant.

MEMPHIS, TENN.—The Sardis Electric Co., capital, $25,000, has been incorporated by D. L. Rush, W. R. Roberts, W. H. Harvey, L. L. Pearson and Rhea P. Corey, to engage in the general electric business, with privilege to build, buy, sell, own and operate electric, gas and water plants.

NASHVILLE, TENN.—Meikleham & Dunsmore, of New York, and C. H. Ackerman, of Binghamton, N. Y., are arranging for the placing of $100,000 worth of stock and the disposal of $4,000,000 of bonds of the Great Falls Power Co. to insure the construction of the proposed water power electrical plant. It is said to be promoted by C. H. Fisk, of Detroit, Mich. A. J. Dyer is Pres. of the local Great Falls Power Co.

DANVILLE, KY.—Ordinance covering specifications for sale of franchise for electric light and power plant for city, for which bids are advertised in Engineering News until Aug. 10, is on file at Engineering News office, 220 Broadway, New York. J. B. Fisher, Mayor.

COLUMBUS, O.—Council has passed an ordinance providing for the issue of $70,000 of bonds for an electric light works, and also for erecting poles and stringing wires for the city.

UTICA, O.—The Federal Gas Co., 35 West Gay St., Columbus, O., has had plans made for a gas pumping station, to be erected here. Bids for corrugated iron, slate roof, iron beams, gas fixtures and skylight will be received by M. B. Carmody, Supt.

WELLSVILLE, O.—The Board of Public Service will readvertise for bids for lighting streets, former bids not having been received, owing to an error in first advertisement.

MUNCIE, IND.—The Electric Company of America, that recently purchased the Muncie Electric Light & Steam Heating Co.'s plants in this city, is preparing to expend $150,000 in bettering the light service and extending steam-heating mains.

KALAMAZOO, MICH.—City has voted to enlarge and improve municipal lighting plant at cost of $20,000. Edwin W. Messany is Supt. Specifications are being prepared and include one 500-HP. Corliss engine, two 200-HP. perpendicular water-tube boilers, one dynamo, 250 enclosed arc lamps, 150 to be used in place of old style open arc lamps now installed; the engine and boilers now in use are to be entirely rebuilt. Previously reported.

SAULT STE. MARIE, MICH.—Council has awarded a gas franchise to F. H. Clergue to run a gas plant in connection with the coke plant proposed. Work on plant is to be started soon.

SAYBROOK, ILL.—Saybrook Electric Light, Heat & Power Co. has been incorporated with $10,000 capital to operate a heat, light, and power plant. Incorporators, Eugene E. Sayler, Earl D. Sayler and Bonnie J. Sayler.

EAST ST. LOUIS, ILL.—Illinois Illuminating Co. has been incorporated with $50,000 capital to operate electric plants. Incorporators, George E. Harris, George F. McNulty, E. G. Bruckman.

CHICAGO, ILL.—Bonds aggregating $5,000,000 will be placed on sale on Aug. 1. Proceeds will be used for permanent municipal improvements, that include extension of lighting system.

PARIS, ILL.—Frank Garrettson is interested with A. A. Boyd, Mgr. of the Michigan City Electric Co., in purchase of Paris Gaslight & Coke Co. Plant will be remodeled. A new company has been organized with $150,000 capital under the name of the Paris Gas & Electrical Co.

GILLESPIE, ILL.—Gillespie Electric Light Co. has been incorporated to maintain an electric light and power plant. Incorporators, C. W. Smith, G. W. Schmidt, Jr., Nettie E. Schmidt. Capital, $15,000.

SPRING VALLEY, WIS.—Village has adopted plans and specifications for a municipal electric lighting plant, to cost about $10,000. Bids will be asked for at once.

WAUSAU, WIS.—The City Council has voted to build a municipal lighting system. It will purchase electricity from the Wausau Electric Co.

LINCOLN, NEB.—George L. Campen, Cy. Engr., may be addressed in regard to the construction of a municipal electric light plant.

BENSON, MINN.—Bids are asked until Aug. 1 by Anthon Arnesen, Recorder, for one 150-HP. compound steam engine and condenser; also one 100-KW. dynamo, to be directly connected with the engine, all to be properly placed upon a foundation.

KANSAS CITY, MO.—W. K. Palmer, M. E., 718 Dwight Building, writes us that he is still receiving bids for the complete installation of works, with a daily capacity of 200,000 cu. ft. of illuminating gas, the process to be such as will be suitable for the use of a good grade of bituminous coal.

FORT WORTH, TEX.—(See Electric Railways.)

ARLINGTON, TEX.—The Arlington Light & Power Co. has been organized with capital of $10,000, by A. W. Collins, Pres.; W. L. Sweet, Vice-Pres.; W. M. Dugan, Treas.; W. C. Weeks, Secy.

DALLAS, TEX.—Plans have been completed for the early erection of a new power plant by the Dallas Light & Power Co. It will cost about $500,000. The plant will be completed and ready for operation in about a year. The old steam engines no win use will be replaced with steam turbines. Previously mentioned.

GUTHRIE, OKLA.—The Cottonwood River recently undermined the Guthrie Gas Mfg. Co.'s plant and practically destroyed it. The plant was recently completed at a cost of $40,000.

LOVELAND, COLO.—Big Thompson Milling, Elevator, Light and Power Co. has been incorporated with capital of $100,000. Lee J. Kellim, Homer Walt, George W. Foote, City, are incorporators.

SILVERTON, ORE.—It is reported that about $50,000 will be expended by the Union Light & Power Co. in improvements. A. B. Kurtz is Supt.

PORTLAND, ORE.—The Lewis & Clark Fair directors have approved the contract with the Portland General Electric Co. for furnishing light and power during the exposition period, amounting to $82,000.

QUINCY, CAL.—J. O. Moneur has appropriated 5,000 ins. of the waters of Bucks Creek and 3,000 ins. of waters of Grizzly Creek. The combined waters of these streams are to be conveyed to the canyon of the North Fork, and there used for the development of electric power. It is rumored that the water locations and survey work are preliminary to the establishment of a large electric power plant in the interest of W. P. Hammon and associates, now operating dredges at Oroville and on the Yuba River.

EUREKA, CAL.—B. Von Homeyer, of the Humboldt County Water & Power Co., states that his company proposes to build a modern steam power plant with at least 1,000 HP., to be used in conjunction with and as an auxiliary to the water plant.

HEALDSBURG, CAL.—Trustees awarded contracts for new power plant, as follows: Tracy Engineering Co., of San Francisco, boiler, engine and oil burner, $6,000; Bullock Co., of San Francisco, electrical part of machinery, $2,242.

EUREKA, CAL.—Bids are asked by W. H. Haw, County Clk., until Aug. 12 for a franchise to erect and maintain poles for transmitting electricity along streets in Loleta, Fortuna, Rohnerville, Alton, Hydesville and Carlotta and Table Bluff, Humboldt Co., as applied for by the Humboldt Milling Co.

GLOBE, ARIZ.—It is announced by Charles M. Clark, of the Globe Power Co., that the project to establish an electric power plant here for Globe and the adjacent mining camps is soon to be carried out as originally planned. The Government has granted the company the necessary right of way for its canal, transmission lines, etc. It is stated that the company has spent about $30,000 in surveys and preliminary work. Estimated cost of constructing and installing the plant will be about $1,200,000. There will be one tunnel 7,657 ft. long and about eight miles of small tunnels, ditches and flumes. The minimum horse-power to be generated is 6,000.

MOOSE JAW, ASSA.—Bids are asked until Aug. 15 for power house. (See Buildings.)

KINGSTON, ONT.—It is reported that it will be necessary to expend $120,000 in remodeling the plant of the Light, Heat & Power Co., recently acquired by the city.

SOURIS, MAN.—The Souris Gas Co. has been incorporated to operate a general heating and lighting business. Capital stock, $19,000. Incorporators are J. A. Taylor, City; R. A. Wylie, of Winnipeg; A. L. Young and others.

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BRIDGES.

WORCESTER, MASS.—F. A. McClure, Engr., is preparing plans for the repairs to the M ry St. iron bridge.

HAVERHILL, MASS.—City Engineer E s has prepared plans for a new county bridge on W ngton St.

NEWBURYPORT, MASS.—The County missioners have instructed Fred. W. Eastman, C. E. f Lynn, to prepare plans for the Endicott bridge a s the Bass River, between Salem and Beverly. The ge will extend from Kernwood, in Salem, to Rob n's point, Beverly. The terminals of the bridge h not been yet permanently fixed. Cost, $100,000. A l draw will be necessary.

WILLIMANTIC, CONN.—The New York, Haven & Hartford Railroad Co. has arranged to t a new bridge across the Natchaug River at this ace. The present structure, which has been in use ong time, is a suspension bridge, but the new one w be erected on abutments.

DANVILLE, PA.—The King Bridge Co. o Cleveland, O., has been awarded the contract for co ucting an iron bridge here over the North Branch at $ 4,900. A. W. King, Vice-Pres., writes us that the com ny desire to sublet the masonry for the substructure, hich consists of two abutments, five new piers and the emoval of coping and building to a higher level of on pier; also about 3,350 sq. yds. of 4-in. creo-resinate od pavement laid on concrete base, which will be sub t.

DARBY, PA.—It is reported that the Coun Commissioners at Chester are preparing to advertise r bids for the erection of a new bridge to take the place of the old structure spanning Darby Creek at Springfield and Chester Aves.

HARRISBURG, PA.—Bids are asked by J. M. Shumaker, Supt. of Pub. Gds. and Bldgs., until Aug. 2, for rebuilding substructure and superstructure of the bridge over Connoquenessing Creek, at the point of crossing of the Zelienople and New Castle road, in Butler County. Plans and specifications can be had on application to superintendent.

PITTSBURG, PA.—E. M. Bigelow, Director of Dept. Pub. Wks., awarded, July 19, the following contracts:
Wilmot St. bridge; masonry work, F. Felker & Sons Co., $14,204; steel construction, Ft. Pitt Bridge Co., $99,067.
Mission St. bridge: masonry work, John Eichleay, Jr., Co., $5,937; steel construction, Ft. Pitt Bridge Co., $24,008.

WILKESBARRE PA.—Bids are asked by Geo. R. M'Lean, County Controller, until July 29 for constructing 33 bridges in Luzerne County. Plans and specifications open for inspection at office of W. B. Allegar, County Engr., 20 North Franklin St., City. $17,100 has been appropriated for the work.

WASHINGTON, D. C.—Bids are asked until Aug. 5, at the Depot Quartermaster's Office, for constructing stone bridges on the Antietam, Md., Battlefield. Capt. A. W. Butt, Q. M., U. S. A., in charge of depot.

DANVILLE, VA.—A new bridge will probably be erected across the Dan River at a cost of about $20,000. J. M. Magruder, Cy. Engr., can inform.

SUFFOLK, VA.—The Nansemonde County Supervisors will build an iron and steel bridge over the river at Reid's Ferry. The Virginia Bridge & Iron Co., of Roanoke, are the contractors.

HINTON, W. VA.—The Talcott Toll Bridge Co. has been organized for the purpose of building a bridge over the Greenbrier River at Talcott, in Greenbrier County. Capital $25,000. Incorporators: J. A. Fox, O. O. Cooper, W. H. Garrett and R. F. Dunlap, of Hinton, and N. Bacon, of Talcott.

ATLANTA, GA.—R. M. Clayton, Cy. Engr., writes us that bids are asked until Aug. 15 for a steel bridge, 282 ft. long, including approaches at Magnolia St. crossing of L. & N. & Southern Rys.

NEW ORLEANS, LA.—The New Orleans Rys. Co. has been requested to repair a number of its bridges. E. C. Foster is president of company.

LAFAYETTE, LA.—Contract for building a bridge across the Vermillion bayou was awarded to E. P. Alsbury, of Houston, Tex., for $5,490.

LOUISVILLE, KY.—The contract for building the steel viaduct of the Louisville & Southern Indiana Traction Co. was awarded to Grainger & Co., and work will begin at once. The contract is worth about $200,000. The viaduct will connect the Big Four bridge with the tracks of the company at Wenzel and Franklin Sts.

CINCINNATI, O.—The plans for the Grandin road viaduct were approved by the Board Public Service and bids for contracts for the work will be received.

The Broadway & Newport Bridge Co. will expend at once about $25,000 to put the bridge in good shape. The rollers at each abutment will be taken out and cleaned, a new flooring relaid, the structure painted and the roadway on the approaches to the bridge laid with new granite blocks. This work will be started at once.

AKRON, O.—Board Public Works are considering the erection of a bridge at Falor St. Est. cost, $14,000. Jno. W. Payne is Cy. Engr.

CINCINNATI, O.—Council passed an ordinance to construct a viaduct from Grandin road over Delta Ave. at an estimated cost of $202,000. The Board of Public Service was authorized to award contracts for the work.

NEW CARLISLE, O.—A $3,000 bridge is to be erected over Honey creek near New Carlisle, and one over Mad River, near Tremont, to cost $8,000. Steel bridges.

WABASH, IND.—County Commissioners will soon advertise for bids for constructing bridges and concrete arches here.

BLOOMINGTON, IND.—Bids are asked by Wm. H. Deckard, Audr. Greene County, until Aug. 2 for construction of several bridges.

SOUTH BEND, IND.—Bids are asked by John W. Harlow, County Audr., until Aug. 18, for a bridge over St. Joseph river at Jefferson St. It will be of concrete with steel arches, 4 spans of 110 ft. each, total length, 554 ft., and 72 ft. wide, asphalt roadway, cement walks, etc. A. J. Hammond, City, is Designing Engr.

ROCKPORT, IND.—Bids are asked by Spencer County Commissioners until Aug. 15 for construction of two concrete bridges; one in Huff Township and one in Carter Township.

LAFAYETTE, IND.—Bids are asked by Harvey H. Cheney, Audr., Tippecanoe County, until Aug. 3 for the repairs of abutments of Weaver bridge, Perry Township, with Portland cement.

TERRE HAUTE, IND.—The County Commissioners accepted the plans submitted by County Engineer Paige for several proposed bridges.

MADISON, IND.—Bids are asked until Aug. 3 for masonry work on Roseberry bridge in Deputy road, and Taylor Bridge on Brownstone road. G. F. Crozier, County Audr.

ALLEGAN, MICH.—At a special election, the proposition to raise by tax $9,000 for an iron bridge across Kalamazoo River was carried.

IONIA, MICH.—Ionia Township has voted to issue bonds of $10,000 to build a new bridge to replace the one washed out by the flood.

CHICAGO, ILL.—Plans for the new $125,000 Archer Ave. bridge, to be constructed out of the proceeds of the coming bond issue of $5,000,000, have been practically completed by City Engineer Ericson. Work will be begun about Sept. 1. Plans for the North Ave. bridge, to cost $150,000, also are nearly finished.

CHICAGO, ILL.—The Board of Trustees of Sanitary District awarded the contract for building the substructure of the 22d St. bridge to the Chicago-Great Lakes Dredging & Dock Co., for $83,643. The Jackson & Corbett Co. was given the contract for the superstructure for $169,923.

The Committee on Harbors and Bridges voted favorably on an order for the removal of the 18th St. bridge to Indiana St. The 18th St. bridge is to be replaced by a new bascule structure.

JOLIET, ILL.—Hardin & Co. were the lowest bidders at $4,446 for raising the roadway of the Brandon bridge road crossing over the Desplaines River.

CHICAGO, ILL.—The Pittsburg (Pa.) Steel Construction Co. was the lowest bidder, at $10,017, for erecting four steel highway bridges over Illinois and Mississippi canal. Bids opened July 20 by Maj. C. S. Riche, Corps of Engrs., U. S. A.

PEORIA, ILL.—A new steel bridge of the draw type will be erected across the Illinois River at the foot of Bridge St.

OSHKOSH, WIS.—The Council has decided that the bridge at Main St. is unsafe and it will probably be replaced by a new structure costing about $100,000. W. L. Stebbins, Engr., can inform.

MARSHALL, MINN.—Bids are asked by John R. Gray, Cy. Recorder, until Aug. 16 for construction of both concrete and stone abutments for a steel highway bridge over the Redwood River on Main St. Plans and specifications on file in Recorder's office.

EUREKA, KAN.—County Commissioners will at their next meeting make appropriations for construction and repairs of several bridges.

OTTAWA, KAN.—Bids are asked by J. H. Bell, Clk., Franklin County, until Aug. 16 for building three bridges. Plans and specifications on file in Clerk's office.

PALMYRA, MO.—R. L. Bowles, James S. Potter and Stephen Glascock were appointed commissioners by the county court to locate a site for a new steel bridge which is to be erected over South River near Warren.

HANNIBAL, MO.—Contract for the new steel bridges to be erected at Market St. and at Lindell Ave. was awarded to the Divers Bridge Co., of Keokuk, Ia., for $3,450.

KANSAS CITY, MO.—The ordinance providing for the immediate construction of the Kansas Ave. viaduct across the Belt line tracks near 18th St. was passed by the lower house of the Council. The ordinance appropriates $6,000 for the construction of the viaduct.

LONOKE, ARK.—Judge Robt. M. Griffin has let the contract for two iron bridges to be built in this county at a cost of $14,000 each.

ALICE, TEX.—The Board of County Commissioners will have a bridge constructed across Lagarto Creek, on the Ramirena road.

MAXWELL CITY, N. MEX.—The contract for building a steel bridge across Red River was let to the Pueblo Bridge Co., for $2,500.

VANCOUVER, WASH.—The bridge across Lynn creek has been condemned.

GOLDENDALE, WASH.—Bids are asked by J. H. Smith, Audr., Klickitat County, until Aug. 4 for construction of a 36-ft. span Howe truss bridge over the Glenwood and White Salmon road, and for construction of a 275 ft. trestle approach for same. Plans and specifications may be had from Auditor.

SACRAMENTO, CAL.—Clark & Henery were awarded the contract by Board of Supervisors to construct a stone bridge over Alder creek near Folsom for $11,900.

SAN LUIS OBISPO, CAL.—The City Engineer was ordered by Board of Trustees to prepare plans and specifications for construction of a new French St. bridge to replace the one condemned, to consist of masonry piers, steel girders and concrete floors.

SACRAMENTO, CAL.—Plans have been completed by Nathaniel Ellery, Highway Comr., for the bridge across Merced River, near the foot of El Capitan, in the Yosemite Valley.

RENO, NEV.—C. W. Swain, Ione, Cal., at $4,288 was low bidder July 15 for furnishing U. S. Reclamation Service with five combination highway bridges.

LOS ANGELES, CAL.—City Engineer Stafford has ordered the Macy St. bridge closed. A new bridge is to be built jointly by the city and street railway company.

OROVILLE, CAL.—Bids are asked by Board of Supervisors until Aug. 3 for construction of a steel bridge on the Durham-Nelson road. H. T. Batchelder, County Clk.

LOS ANGELES, CAL.—The following bids were received by H. J. Lelande, Cy. Clk., July 18 for construction of a plate girder bridge over Los Angeles River at Aliso St.: Harry F. Stafford, Cy. Engr.; Scheme A: Crandall & Beiple, 115 Hellman Bldg., City, $64,205; Clinton (Ia.), Bridge & Iron Works, $67,772; H. S. Farnsworth Co., City, $63,638; J. D. Mercerean, 1333 Westlake Ave., City, $63,280; F. O. Engstrum, 530 Byrne Bldg., City, $68,444; C. Leonardt, 436 Byrne Bldg., $59,101; Altantic, Gulf & Pacific, San Francisco, $63,316; W. N. Concanon, Oakland, $74,884; American Bridge Co., San Francisco, $62,709.

SANTA ROSA, CAL.—Bids are asked by Board of Supervisors until Aug. 3 for construction of a stone bridge. F. L. Wright, County Clk.

BUILDINGS.

ADAMS, MASS.—E. Brilmaier & Sons, Archs., Milwaukee, Wis., are preparing plans for a Roman Catholic church here, to cost $60,000.

LAWRENCE, MASS.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until Aug. 15 for the installation of a conduit and electric wiring system in the post office.

CANANDAIGUA, N. Y.—The taxpayers have voted to expend the sum of $80,000 in the erection and equipment of an academy building.

NEW YORK, N. Y.—Plans have been filed by G. J. Ebert, Arch., 82 Lawrence St., for a 6-sty brick flat, 75 × 87 ft., on 146th St., east of Broadway, for T. J. McGuire Construction Co., 968 St. Nicholas Ave. Cost, $90,000.

By Neville & Bagge, Archs., 217 West 125th St., for two 5-story brick tenements, 46 × 55 and 57 × 62 ft., on Jennings St., east of Union Ave., for Sauer, Gross & Herbener, 45 West 95th St. Cost, $60,000.

By Horenburger & Straub, Archs., 122 Bowery, for four 6-story brick tenements and stores, 52 × 90 ft., at 456-466 Cherry St., for S. Mandel, 262 East Broadway. Cost, $120,000.

By G. F. Pelham, Arch., 503 Fifth Ave., for a 6-story brick flat and stores, 52 × 90 ft., at Park Ave. and 111th St., for J. Bluestein, 9 West 111th St. Cost, $56,000.

By J. H. Morgan, Fuller Bldg., Arch., for a 5-story brick hippodrome, 200 × 233 ft., on Sixth Ave., 43d to 44th St., for the New York Hippodrome Co., Fuller Bldg. Cost, $400,000.

By J. A. Robinson, Arch., 2128 Washington Ave., for a 4-story brick dwelling, 25 × 50 ft., on Buchanan Pl., east of Davidson Ave., for Wm. Flynn, 1151 Girard Ave. Cost, $55,000.

By Thomas Graham, 45 West 21st St., for nine 5-story brick tenements, 25 × 65 ft., at Jackson Ave. and 156th St., for Eastern Union Realty Co., 132 Nassau St. Cost, $181,000.

By Franz Wolfgang, 787 East 177th St., Arch., for two 5-story tenements, 40 × 90 ft., and 50 × 88 ft., at Washington Ave. and 151st St., for August Jacobs, 738 East 171st St. Cost, $120,000.

By Moore & Landseidel, Archs., 148th St. and Third Ave., for a 5-story brick tenement, 50 × 103 ft., at Cauldwell Ave., north of Westchester Ave., for Geo. Brown, 200 Broadway. Cost, $55,000.

By Buchman & Fox, Archs., 11 East 59th St., for an 11-story brick lofts and store, 47 × 88 ft., at 25-27 West 32d St., for L. S. Mendel, 1322 Madison Ave. Cost, $150,000.

By O. E. Harding, Arch., 253 Broadway, for alterations to a 1-story brick theater at 137-143 West 48th St., for Realty Amusement Co., 200 Broadway. Cost, $65,000.

By C. B. J. Snyder, Arch., Bd. Education, for a 5 and 6-story public school, 200 × 84 ft., on Prospect Ave., and a 1-story extension, 40 × 42 ft., for City. Cost, $250,000.

By Clinton & Vincent, Archs., 32 Nassau St., for a 12-story brick apartment house, 204 × 90 ft., on Central Park West, bet. 73d and 74th Sts., for Boehm & Coon, 31 Nassau St. Cost, $1,250,000.

By Buchman & Fox, Archs., for an 11-story brick lofts and stores, 125 × 78 × 50 ft., at William and Frankfort Sts., for J. & H. Black, Irvington, N. Y. Cost, $150,000.

By G. F. Pelham, Arch., for two 6-story brick flats, 44 × 87 ft., on 114th St., west of Lexington Ave., for I. Ginsberg, 121 East 111th St. Cost, $92,000.

By A. E. Badt, 1 Union Sq., Arch., for two 6-story brick flats and stores, 43 × 92 ft., at 178-184 Second Ave., for E. L. Winthrop, of 242 East Houston St. Cost, $100,000.

By Dickerson & Adolin, 149th St. and Third Ave., for 3-story brick tenements, 37 × 88 ft., on 166th St., east of Franklin St., for Edward A. Berry, 1149 Boston Road. Cost, $84,000.

By A. E. Badt, Arch., for four 6-story brick tenements and stores, 40 × 87 ft., on 101st St., west of First Ave., for A. & I. R. Horowitz, 48 West 114th St. Cost, $140,000.

By Neville & Bagge, Archs., for two 5-story brick flats, 50 × 87 ft., on 146th and 147th Sts., west of Amsterdam Ave., for C. R. McLaughlin, 1123 Broadway. Cost, $100,000.

By J. M. Lawlor, 69 Wall St., Arch., for a 6-story brick flat, 87 × 87 ft., on 112th St., west of Broadway, for the Porterfield Construction Co., 26 Cortlandt St. Cost, $150,000.

By W. Emerson, Arch., 81 Madison Ave., for a 7-story brick flat, 50 × 85 ft., at 308-310 East 40th St., for A. & E. J. Stone, 34 East 50th St. Cost, $80,000.

By G. F. Pelham, Arch., for a 6-story brick flat, 100 × 90 × 87 ft., at Madison Ave. and 97th St., for A. E. Silverman, 241 West 113th St. Cost, $200,000.

By Howells & Stokes, Archs., 100 William St., for 16-story brick offices, 72 × 76 ft., at Exchange Pl. and New St., for the Commercial Cable Bldg. Co., 253 Broadway. Cost, $500,000.

NEW YORK, N. Y.—Bids are asked until Aug. 11 for new partitions, plumbing, etc., in the U. S. appraisers' warehouse. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

Bids are asked by the State Commission in Lunacy, Albany, until July 29 for repairs to the heating system, main building, and pipe covering, main building, at the Manhattan State Hospital, Ward's Island, East New York. F. A. Wheeler, Purchasing Steward, 309 Broadway; G. L. Heins, State Arch., Albany.

Bernstein & Bernstein, 72 Trinity Pl., Archs., have prepared plans for renovation of the Court House Building, in City Hall Park, that will cost $100,000. Improvements consist of installing a new ventilation system, heating, plumbing, drainage, fixtures, electric light wiring, painting and decorating, a new water supply system, and repairing of roof, concrete, marble and tile work, tanks, etc. No contracts have been let, and estimates will be advertised for in the usual way.

It is announced that Mayor McClellan has approved the issue of $350,000 corporate stock, as ordained by the Board of Estimate and approved by the Board of Aldermen, to provide additional means for the construction of a court house in the Bronx.

Bids for the new Police Headquarters building that will be built on Centre St., between Broome and Grand Sts., were received on July 20, as follows: P. W. Finn, $1,247,000· T. B. Leahy, $935,544; The Thompson-Starrett Co., $946,000; Murphy Bros., $939,000; P. Gallagher, $819,450; J. H. Parker, $814,950; P. J. Carlin, $899,400; Murphy Construction Co., $849,000; P. Sullivan, $873,000; Herman Probst, $874,700; Water & O'Connell, $775,000 (low bid). Hoppin, Koen and Huntington, 244 Fifth Ave., are Archs. The building will cover the entire block. It will be 308 ft. in length, with an average width of 65 ft. The apex of the dome will be 175 ft. above the street. There will be a basement, a sub-basement, and five stories above ground. The basement probably will be of granite, and the facade of limestone. Brick may be used in the rear exterior wall; $750,000 has been appropriated. As bids were in excess of this amount the matter may be referred back to Board of Aldermen and to Board of Estimate. Wm. McAdoo is Comr. of Police.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

ROCHESTER, N. Y.—Bids were received for construction of five new police precinct stations by Board of Contract and Supply. Fred. Gleason was lowest bidder, at $115,796.

FORT TOTTEN, N. Y.—Bids are asked by Constructing Quartermaster, Fort Totten, Willets Point, N. Y., until Aug. 20 for constructing, plumbing, heating and electric wiring of one hospital, gymnasium, two single sets field officers' quarters, four double sets officers' quarters, four double sets non-commissioned staff officers' quarters, and for remodeling mess hall. All buildings are to be of brick. Capt. Geo. H. McManus, Q. M., U. S. A. (Advertised, Engineering News.)

PLAINFIELD, N. J.—Bids are asked by the Board of Education of North Plainfield, N. J., for $36,000 4% school bonds on Aug. 8. R. M. Fountain, Plainfield, N. J., or John Valiant, Chairman of Finance Committee, Room 401, Produce Exchange, New York, may be addressed.

MOUNT HOLLY, N. J.—The Berkeley Arms Hotel, near Seaside Park, has been burned. Loss, $75,000.

DONORA, PA.—Election will be held on August 19 to vote upon question of a bond issue of $80,000 to build a school-house.

SOMERSET, PA.—Bids are reported asked until Aug. 16 for erection of a new court house. J. C. Fulton, of Uniontown, is Arch.

McKEESPORT, PA.—The Finance Committee of the Council will favorably report issuance of $350,000 bonds. $30,000 will be used for a poor farm and $100,000 for a new city hall. Bond election will be held on Dec. 20.

OAKLAND, PA.—Preliminary plans have been prepared for a modern hotel, to cost about $500,000. It will be erected at Forbes and Halket Sts., and will cover 206 × 250 ft. John Dimling is at the head of the project, it is reported.

PHILADELPHIA, PA.—D. H. Burnham & Co., Railway Exchange Bldg., Chicago, have completed specifications for carpenter work, painting and glazing, ornamental iron, cement work and hardware for a department store being erected for John Wanamaker. Twelve stories, 480 × 240 ft., fireproof construction. Cost, $5,000,000. Previously mentioned.

PHILADELPHIA, PA.—Bids are being received for the $240,000 building for the William L. Elkins' Masonic Home for Orphan Girls, at Broad St. and Hunting Park Ave. Horace Trumbauer, Land Title Bldg., Arch.

K. Rankin, Kellogg & Crane, Archs., will be ready for proposals about the latter part of the present month for the $90,000 fireproof office and storehouse for the Quartermaster's Department of the United States Marine Corps, at Broad St. and Washington Ave. Five stories high, with a basement 83 × 82 ft., brick, terra cotta and granite.

$900,000 is available for continuing the work of erecting the series of hospital buildings for the treatment of disease of a contagious character in the 33d Ward, and proposal will shortly be asked for by Director Martin.

BELAIR, MD.—Plans by J. A. Dempwolf, Arch., of York, Pa., have been posted for proposals by Henderson & Co., Limited, of Philadelphia, for two wings, one on either end of the Harford County Court House. The additions will be two stories, of brick and terra cotta, 40 × 67 ft. each.

BALTIMORE, MD.—Chas. E. Cassell, 419 North Charles St., has been commissioned to prepare plans for an arcade and hotel building for the Abell estate, to be erected on East Baltimore St., to replace a structure destroyed in the recent fire. Six stories, 60 × 125 ft., stone, brick and steel, fireproof, steam heat, elevators, electric light. Cost, $125,000.

ANNAPOLIS, MD.—Plans for the engineering experimental station on the Severn River are being prepared by Ernest Flagg, Arch., 35 Wall St., New York. Lieutenant Commander Walter Fitzhugh Worthington has been appointed engineer in charge. The equipment will consist of all appliances necessary to test engines, such as are used on warships. Congress is reported to have appropriated $250,000 for the building and $150,000 for equipment.

WASHINGTON, D. C.—Bids will be asked soon by Department of Interior for construction of the new building for Freedmen's Hospital. Congress has appropriated $300,000.

Casualty Hospital and Eastern Dispensary, care of Dr. T. G. Jones, will have plans prepared for a hospital at this place. Brick, stone and steel, fireproof.

ROANOKE, VA.—The Norfolk & Western Railway Co. has obtained from the City Engineer permits for the construction of a new passenger depot to cost $100,000, and for other buildings, to cost $40,000.

RALEIGH, N. C.—Bids are asked until Aug. 2 for the construction of the agricultural building for the North Carolina College of Agriculture and Mechanical Arts. Hook & Sawyer, Archs., Charlotte, N. C. S. L. Patterson, Comr. of Agriculture.

CHARLESTON, S. C.—Bids were received on July 16 by the Bureau of Yards and Docks, Navy Dept., for quarters "A," at Navy Yard. Isaac W. Nailor, Milton, Del., was lowest bidder on item 1, at $10,990.

BATON ROUGE, LA.—The City Council has adopted the ordinance to issue $300,000 of public improvement bonds. A special election will be held on October 4 to vote upon the proposition.

LOUISVILLE, KY.—The Columbia Trust Co. will erect a 7-story hotel and apartment house, to cost $125,000, at Fourth and Main Sts. Work will begin on Dec. 1.

LOUISVILLE, KY.—Plans have been prepared by Pilcher & Tochan, New York, for a 3-story stone public library building, 200 × 250 ft. Cost, $225,000.

XENIA, O.—Bids are asked by the Board of Trustees of the O. S. & S. O. Home, at office of superintendent, until Aug. 17, for the construction of an armory hall. H. W. Owens, Arch. Thos. J. Collins, financial officer.

CLEVELAND, O.—Bids are asked by Carl Lorenz, Secy. Public Library Board, 205 Wood St., until Aug. 12 for erecting the public library building at Lorain and Hartnell Sts. Knox & Elliott, 41 Mercantile Bank Bldg., are Archs. C. D. Williams, Pres.

CINCINNATI, O.—All bids for construction of the Walnut Hills Carnegie branch library were rejected as being in excess of amount specified ($40,000). New specifications are to be drawn, and the board of trustees will readvertise at an early date. Wm. A. Hopkins, Clk. Jas. W. McLaughlin, Arch., 409-410 Johnston Bldg.

GALLIPOLIS, O.—Bids are asked by Frank L. Packard, Arch., Columbus, O., until Aug. 3 for reconstruction of Industrial Building at Ohio Hospital for Epileptics. Dr. A. P. Ohlmacher, Supt.

CLEVELAND, O.—The board of trustees of the Cleveland State Hospital will receive bids until August 4 for erecting an infirmary building. Adams B. Howard, M. D.

BROWNSTOWN, IND.—Bids are asked until Aug. 4 by Asbury H. Manuel, Auditor, for the erection of a county jail and for remodeling sheriff's residence.

CHICAGO, ILL.—Pierce, Richardson & Neiler, 315 Dearborn St., have prepared specifications on heating and power, electric and plumbing, for the office building being erected at Clark and Monroe Sts. for Chas. Rector, and will receive bids at once. Cost, $750,000.

PEORIA, ILL.—Separate bids will be received by John S. Stevens and O. J. Bailey, at office of Reeves & Baillie, Archs., until Aug. 10 for the different parts of construction (exclusive of heating apparatus and plumbing system) of a building for John C. Proctor, to be erected at Spring Hill Park.

MILWAUKEE, WIS.—A 6-story stone and brick building, 95 x 155 x 15 ft., to cost about $150,000, will be erected for the John Hoffman & Sons Co., on East Water St.

WINTERSET, IA.—Bids are asked by the Library Board until Aug. 10 for the erection of a library building, according to the advertisement appearing in Engineering News of June 21. Separate bids will be received for heating and plumbing. W. J. Cornell, Secy.

OMAHA, NEB.—The Y. M. C. A. is having plans prepared for a new building to be erected at 16th and Howard Sts. Six stories and basement, of brick and stone. Cost, $225,000. B. C. Wade is Gen. Secy.

TWO HARBORS, MINN.—Bids are asked until Aug. 9 for the erection and construction of the Lake County court house. James A. MacLeod, Arch., St. Paul, Minn. John P. Paulson, County Auditor.

SHERIDAN, WYO.—Bids are asked by State Board of Charities and Reform, at Cheyenne, until Aug. 8 for construction of a branch of Wyoming General Hospital. Fenimore Chatterton, Pres.; Thomas T. Tynon, Secy.

HAVRE, MONT.—Plans are being prepared for a new brick and stone hotel for the Havre Hotel Co. Estimated cost, $60,000.

PINE BLUFF, ARK.—Missouri Pacific Railway, Russell Harding, Gen. Mgr., St. Louis, Mo., will have plans prepared at once for the erection of its proposed $65,000 station.

KOUNTZE, TEX.—County Commissioners have awarded the contract for the new court house to M. T. Lewmer & Co., of Louisville, Ky., at $49,481.

EL PASO, TEX.—Burnham & Co., Railway Exchange Bldg., Chicago, are ready for new figures on a passenger station to be erected here. Cost, $300,000. Previously reported.

DELRIO, TEX.—John T. Patrick is reported interested in a Southern Pacific Railway Co. project to establish a health resort near here. About $250,000 will be expended, including the erection of a $200,000 sanitarium and hotel, building of cold storage plant, etc. Mr. Patrick can be addressed, care of J. T. Anderson, G. P. A., Southern Pacific Railway, Houston, Tex. Previously reported.

LOS ANGELES, CAL.—Homer Laughlin is planning to extend 6-story fireproof building through to Hill St., from Broadway. Structural steel, eight stories. Work will begin in three months. Cost, $500,000.

SACRAMENTO, CAL.—$200,000 bonds for acquiring a site and the erection of a new high school building have been voted.

SAN FRANCISCO, CAL.—H. H. Meyers and O. D. Ward have prepared plans for the construction of an 8-story and basement store and loft building for the estate of Isabella Cowell, on Sansome St., between Clay and Merchant Sts. Cost, $100,000.

OAKLAND, CAL.—Bid are asked until Sept. 17 for competitive plans for a brick, or brick and stone, building on block bounded by Ninth and Tenth Aves., East 15th and East 16th Sts., including heating and ventilating systems, etc.; electric wiring, etc.; also for brick, or brick and stone, buildings, one to cost $145,000; another, $145,000, and a third to cost $28,000; also for additions to the Lafayette and Grant schools. J. W. McClymonds, Secy. Bd.

STANFORD UNIVERSITY, CAL.—The McGilvray Stone Co. has been awarded contract for the stone and brick work of the new library building at Stanford University. It will be three stories in height. Cost, $271,241.

MOOSE JAW, ASSA.—Bids are asked until Aug. 15 for construction of (a) a city hall and (b) a power house for water-works and electric lighting system. W. C. Albrant, Fargo, N. D., is Arch. for city hall, and Willis Chipman, Engr., Toronto, Ont., engineer for water-works system for (a) and (b), respectively. John D. Simpson, Secy.

WINNIPEG, MAN.—It is reported that the T. Eaton Co., of Toronto, Ont., has bought the block on Portage Ave., bounded by Donald, Graham and Hargrave Sts., for $450,000, and that it is the company's intention to erect a $1,000,000 building on this site.

WATER SUPPLY AND IRRIGATION.

ORONO, ME.—Town meeting was held July 26 to vote on contracting for supply of water. Company represented by Wm. T. Haines, Waterville, Me., is stated to have made proposition for installing system.

RUMFORD FALLS, ME.—Rumford Falls Light & Water Co., C. P. Eaton, Supt., according to reports, is to better its water supply by sinking driven wells.

BRANDON, VT.—Betterment of village water supply by constructing reservoir and laying new mains, at est. cost of $30,000 is under consideration. A. C. Grover, Rutland, Vt., is Engr.

BRISTOL, VT.—Matter of increased supply for local water company is being agitated.

ATTLEBORO, MASS.—Plans and specifications for construction of a concrete steel stand-pipe for this town are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 10, as advertised in Engineering News.

BRAINTREE, MASS.—Special town meeting was held July 18 to consider matter of water supply for the Mayflower District.

GREENFIELD, MASS.—Contract for constructing new reservoir at Leyden for Greenfield Fire District has been let to Daniel O'Connell & Sons, Holyoke, Mass., for $48,767.

LAWRENCE, MASS.—Water Board is to consider connecting with North Andover water mains to secure additional supply.

SOUTH DEERFIELD, MASS.—South Deerfield Water Supply District has voted to borrow not more than $20,000 for improvements. J. B. Bridges is Chn. Water Comrs.

WORCESTER, MASS.—Ordinance will probably come before Council for metering of all fire pipes entering private property. Geo. W. Batchelder is Water Comr.

SPRINGFIELD, MASS.—Council has passed order that special water commission be requested to remain in office and to prepare detailed estimates, and specifications for contracts, on all the proposed Ludlow improvements.

WINTHROP, MASS.—Citizens have voted to purchase portion of plant of Revere Water Co. in this town.

WOONSOCKET, R. I.—A resolution making an appropriation of $45,000 for improvements at the water-works pumping station, recommended by the finance committee, was passed by Council.

HARTFORD, CONN.—City Water Board is stated to have decided to build 500,000,000-gallon capacity reservoir in Farmington.

NEW BRITAIN, CONN.—Preliminary work for the establishment of a water supply for this city in Whigville and surrounding territory has been completed. Among other things construction of ten-mile pipe line is contemplated.

HORSEHEADS, N. Y.—Specifications have been completed for village water-works system. Election to vote $46,500 of bonds for this purpose was held in June. R. G. Eisenhart is Village Pres.

ITHACA, N. Y.—Ithaca Water Board is stated to have given Ithaca Water-Works Co. until Aug. 1 to accept its offer of $436,275 for its plant.

LOCKPORT, N. Y.—Charles Hague, Consult. Engr., 39 Cortlandt St., New York, has submitted supplemental report on proposed means of securing a local water supply. He estimates that it will cost the city $492,700 to establish a pumping station and pipe water from Niagara River, while it will cost $463,000 to get water from the Tonawanda Creek source.

NEW YORK, N. Y.—Plans and specifications are under way for salt-water mains for additional fire protection, and, according to statement of John T. Oakley, Comr. Water Supply, the mains will be available for use in Manhattan within one year. $5,500,000 has been appropriated for the work.

Board of Estimate has appropriated $1,000,000 for the general extension of the water system into the suburban district.

OXFORD, N. Y.—W. N. Robins, Syracuse, N. Y., is stated to have completed surveys for addition to local water system.

CAMDEN, N. J.—We are informed that bids are asked by City Engineer until 8 p. m. July 29 for 20,000 ft. of 30-in. water main.

RIVERTON, N. J.—Committee, L. G. Graff, member, has been appointed to ascertain the purchasing price of that part of the Riverton & Palmyra Water Co.'s plant located at Riverton.

BELLEVUE, PA.—Water companies supplying this place and other towns along the Ohio River have consolidated under the name of the Valley Consolidated Water Co., and have increased capital stock from $300,000 to $1,000,000, with intention of extending the service. T. Lee Clark, Bellevue, is Secy. and Treas.

BLOOMSBURG, PA.—Bloomsburg Water Co. will, it is stated, build new reservoir of 400,000 gallons capacity.

NESCOPECK, PA.—The Spring Water Co., which has now a proposition before the Nescopeck Council to enter that borough and install a complete water system, will appear before the West Berwick Council in near future with a proposition to install a water system and water-works. A. J. Harter, Bloomsburg, Pa., and J. C. Koons, Kingston, Pa., are interested.

PHILADELPHIA, PA.—Peter E. Costello, Comn. Pub. Wks., is calling for bids until Aug. 2 for construction of submerged intake tunnel for Torresdale filter plant, in the Delaware River. Bids are asked also until Aug. 2 for electric traveling crane for Lardners Point Pumping Station No. 3.

SLIPPERY ROCK, PA.—Council has decided to submit to the voters Aug. 9, the question of constructing a water supply system.

PITTSBURG, PA.—At recent election it was voted to issue $5,000,000 of bonds for water filtration purposes. It is probable that contracts for the work will be let early in September. The matter of metering the supply is also being considered, and an ordinance providing for the letting of a contract for 5,000 meters has already passed the Common Council. About 55,000 meters in all will be required, and an ordinance providing for 30,000 of these will probably come before the councils soon. E. M. Bigelow is Dir. Pub. Wks.

SPENCER, N. C.—Board Aldermen are stated to be considering proposition for installing water system.

ASHEVILLE, N. C.—B. M. Lee, Cy. Engr., has est. cost of 4,000,000-gallon reservoir east of city at $36,000.

CHIPLEY, GA.—Murrah Bros. and O. D. Tucker have formed company to at once put in water-works here.

ROCK HILL, S. C.—Municipal ownership of local water and light plant considered.

COLUMBUS, GA.—Water Commissioners have instructed J. L. Ludlow, Consult. Engr., Winston-Salem, N. C., to prepare plans and specifications for construction of a 20,000,000-gallon storage reservoir.

DUBLIN, GA.—Water Commission will, it is stated, proceed at once to build new water-works.

COLUMBUS, GA.—Frank Sutter, Pensacola, Fla., may, it is said, make propositions to city to furnish it with 3,000,000 gallons of artesian water daily.

TAMPA, FLA.—Council is stated to be considering purchase of plant of Tampa Water-Works Co.

MONTGOMERY, ALA.—Council Water-Works Committee has been considering propositions from several consulting engineers for supervising proposed improvements of the water-works. Thos. H. Carr is Mayor.

BRIGHTON, ALA.—Ordinance has been before Council to grant franchise for water-works. L. N. Buell is Mayor.

ENSLEY, ALA.—Council will take up purchase of McWilliams Spring property and supply of water to citizens.

SELMA, ALA.—City ownership local works agitated.

ABERDEEN, MISS.—City has voted bonds and will begin soon installation of water-works, lights and sewerage.

PITTSBORO, MISS.—Bids are asked until Aug. 1 by Board County Supervisors for furnishing overflowing well of water in public square. J. A. Clements, Clk.

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WOODVILLE, MISS.—Town voted July 20 on issu $7,500 of bonds for erecting water-works and ele light plants.

JELLICO, TENN.—Proposition is stated to have made to council to put in water-works to cost a $35,000.

SPRINGFIELD, TENN.—Bids are asked by City Co cil until Aug. 10 for furnishing material and construc water and light plant, as is described in our advertis columns. H. T. Stratton, Mayor; E. A. Hicks, Recdr.

LOUISVILLE, KY.—Commissioners Lakeland Asy are stated to have under consideration plans for wall Pusey Lake, the chief source of water supply on the sane asylum grounds, in such a manner that a suffici water supply will be assured all through the year. It expected the work will cost about $50,000.

LIMA, O.—R. H. Gamble, Engr., writes us that b of J. C. Linneman, J. D. S. Neeley, Joseph B. Mayer a J. A. Bendure, all of Lima, for constructing a stora reservoir, has been accepted. Their bid was $144,8 and J. A. Bendure is Mgr. of the association.

LORAIN, O.—Sheffield Land Co., W. D. Plant, ha secured permission to lay about 7,000 ft. of mains.

NORWOOD, O.—Board Public Service is reported to b considering extension of water mains to Elsemere at a cost of $5,000.

NEW CARLISLE, O.—New Carlisle will vote on water-works system. It is estimated that a plant can be installed for $12,000.

SPRINGFIELD, O.—Bernard Higgins, Member Board Public Service, is reported to favor expenditure of about $20,000 for laying new water mains.

ZANESVILLE, O.—Probable that Board Public Service will eventually install a well system as means of getting pure water supply.

EVANSVILLE, IND.—It is reported that contract for rebuilding broken intake pipes at city water-works has been let to Capt. Archibald Hollerback for $31,000.

NEW ALBANY, IND.—Council has adopted ordinance granting New Albany Water Works Co. a franchise to operate for 25 years.

HOUGHTON, MICH.—Village Council has awarded contract for construction of reservoir and pipe line for new water-works to Johnson & Latteral for $33,971.

SHELBY, MICH.—Village may install new water-works.

MACKINAC ISLAND, MICH.—Board Public Service, M. G. Bailey, Pres., is considering purchase of local water-works, light and sewer system.

EAST MOLINE, ILL.—Committee, Walter Ammerman, member, is considering installation of water-works, to consist of artesian well, pumping station, and 65,000-gallon stand-pipe

CHICAGO, ILL.—It is reported that Commissioner Public Works Blocki is taking steps to compel the Commissioners of the west and south park systems to erect and maintain an independent water plant.

LIBERTYVILLE, ILL.—We are informed that Thomas Brooke, 1143 Polk St., Chicago, Ill., was low bidder for pipe hydrants, etc., for village water-works, and The Gould Co., Chicago, was low bidder at $1,000 for the pump. Contracts for tower, tank and reservoir were not let, and this work is readvertised until Aug. 12. W. H. Show, 220 City Hall, Chicago, Ill., is Consult. Engr.

APPLETON, WIS.—Council will consider soon, it is stated, plans for construction of city water-works, as all hope of reaching agreement with present water company is said to have been given up.

FOND DU LAC, WIS.—Council has been considering matter of installing system for furnishing water for sprinkling and fire purposes. Est. cost is set at from $21,000 to $23,000.

MILWAUKEE, WIS.—R. J. Hickey, at $42,563, was low bidder for building the intake at the Kinnickinnac flushing tunnel, and Wm. Bayley & Sons, at $2,200, was low bidder for constructing the gate.

ALBIA, IA.—Franchise for water-works has been granted C. A. Roes, Tahlequah, Ind. Ter., and it is stated that he will install a plant at once.

ELDRIDGE, IA.—We are informed that this town again rejected bids for constructing water-works. Bids were received July 16.

FORT DODGE, IA.—Council is stated to be considering matter of installing mechanical filter system, to cost about $75,000. W. L. Pray is Supt. W.-W.

WATERLOO, IA.—Committee named to ascertain cost of putting in a water-works plant, sewer system and electric lighting plant, to be owned by the village, was granted until about July 22 to make their report to the taxpayers of Waterloo.

WAUKON, IA.—Bids are asked until Aug. 15 for horizontal, single cylinder, non-condensing, high speed, automatic cut-off engine, especially adapted for deep well pumping service in connection with No. 34. Downie double acting geared pump. C. M. Stone. Plans and specifications for above work are on file at office of Engineering News, Monadnock Block, Chicago, Ill. (Advertised, Engineering News.)

CLARKFIELD, MINN.—Village will sell Aug. 8 $5,000 of water-works bonds. J. E. Johnson, Village Recdr.

EL DORADO, KAN.—Burns & McDonnell, Consult. Engrs., 509 Dwight Bldg., Kansas City, Mo., have been employed to make a valuation of the water-works plant at this place. If the plant is not purchased, the firm will make plans for a new plant.

BARNSTON, NEB.—Town, according to reports, is to levy tax to put in water-works.

NORFOLK, NEB.—Burns Water Works Construction Co., Lincoln, Neb., is stated to have been awarded contract, at $8,350, for pumps, air compressors, and 65,000-gallon cistern, for water plant at Norfolk. Contract for piping and hydrants was let to Cox & Phillips, Lincoln, for $3,300.

GENEVA, NEB.—Water-works considered. C. C. Smith may be interested.

OSCEOLA, NEB.—Town may vote on $25,000 bond issue to put in water-works.

SPALDING, NEB.—Town votes to issue $1,800 of bonds for extending water-works.

MILES CITY, MONT.—Council has been considering matter of pumping station on Tongue River, to cost about $15,000.

KANSAS CITY, MO.—Bids are asked by Board Public Works, until Aug. 12 for construction, delivery and erection of centrifugal pumping engine. Everett Elliott, Secy. Bd. Pub. Wks. (Advertised, Engineering News.)

COLUMBIA, MO.—Jno. S. Bicknell, Cy. Clk., writes us that this city has purchased the present water and electric light plant, and will take charge Aug. 1st. $30,000 has been voted for improvement, and plants will probably need new boiler, dynamo, pipe and deep well equipment. Designing Engineer had not been selected at time of writing.

DALHART, TEX.—Dalhart Water Co. has been incorporated with $[illegible]0,000 capital to install water-works here. Franchise has already been secured by Chas. A. Smith, Denver, Colo., who is interested in above company.

EL PASO, TEX.—Franchise has been granted Highland Water Co. to construct water-works in Highland Park Addition, by terms of which work is to commence in 60 days. H. Nations, Pres., Highland Realty Co., is interested.

AQUILLA, TEX.—Aquilla Water Co. has been organized to establish works here. F. S. Atwell is interested.

BONUS, TEX.—Recently formed Texas Planting Co., according to reports, will establish irrigation system near here. W. C. Zello, Eagle Lake, Tex., may be interested.

ALVARADO, TEX.—Alvarado Water, Light & Power Co., capitalized at $40,000, will establish water-works here. E. M. Turner, Hillsboro, Tex., may be interested.

GALVESTON, TEX.—Bids are asked by Jno. D. Kelley, Cy. Secy., until Aug. 3 for erection of the Galveston City water-works pumping station, after plans and specifications to be seen at office of C. W. Bulger, Arch., Galveston.

HOUSTON, TEX.—Moore Texas Rice & Canal Co., incorporated with $500,000 capital stock, will, it is stated, establish large irrigation system in Southern Texas. N. C. Abbott, Houston, Tex., and Joel D. Smith, Castleton, N. Y., are incorporators.

FORT WORTH, TEX.—North Fort Worth voted July 14 on issue of $100,000 of bonds for water-works improvements.

WACO, TEX.—Bids are asked until Aug. 1 for drilling 6 or 8-in. artesian well. Thos. A. Canfield, County Clk.

PALMER LAKE, COLO.—Town has voted $10,000 of bonds to build dam in Monument Canyon to create a reservoir, and work is to commence at once. (Post-office, Palmer.)

CHEWELAH, WASH.—D. F. Strobeck has asked franchises for water-works and electric light and power plant.

STERLING, COLO.—Local reports state that Messrs. Powell & Blair, owners of reservoir at Iliff, propose to increase system, so as to put 4,000 acres under irrigation.

COLFAX, WASH.—Howard Bramwell, Cy. Clk., writes us that bid of Wm. B. Scaife & Sons Co., Pittsburg, Pa., at $3,500 has been accepted for a filter plant, city to furnish building and clear water well. Bids received July 5.

Council, according to reports, is to investigate feasibility of bringing water from point north of Colfax, to furnish power for the city pumping station.

TACOMA, WASH.—Committee, Councilman Salmson, member, is to investigate matter of establishing additional wells, reservoirs, stand-pipes and pumping stations at South Tacoma.

PORTLAND, ORE.—Water Board, according to reports, is to spend $6,000 for new fire hydrants.

BERKELEY, CAL.—Thomas Dowd, Town Trustee, is on committee, which is to confer with the Mayor and the Committee on Public Utilities of the Board of Supervisors of San Francisco, together with similar committees appointed by the legislative bodies of Oakland and Alameda, for project of securing a joint source of water supply for the bay cities, possibly from the Sierra Nevada.

COLUSA, CAL.—Under its present charter city can issue bonds for building new works.

EUREKA, CAL.—J. N. Lentell has filed claims on 7,000 miners' inches of water flowing in Mad River for supply and power purposes.

MOUNTAIN VIEW, CAL.—Town voted July 25 on $28,000 bond issue for water-works purposes. W. J. Van Doren is Town Clk.

SAN ANDREAS, CAL.—Sierra Nevada Water & Power Co. has filed claims appropriating 10,000 inches of water of North Fork of Mokelumne River.

SAN DIEGO, CAL.—Council has passed ordinance appropriating $12,000 for installing a new pumping plant in Mission Valley. This provides for the purchase of a 60-HP. engine and a series of wells 75 ft. in depth, if necessary, to secure a plentiful supply of water. Geo. D. Goldman is Cy. Clk.

It is reported almost assured that John D. Spreckels will complete proposed new water system at San Diego, which is to include the construction of four large reservoirs, the cost of plant being estimated at $3,000,000.

San Diego reports state that John Stewart has filed claim with County Recorder for 5,000 inches of water in Coyote Creek, and will build a dam for irrigation purposes.

SAN RAFAEL, CAL.—North Coast Water Co. has filed articles of incorporation here; capital is $600,000, and company intends to construct a new reservoir near Mill Valley, and will be in a position to supply Sausalito and Fort Baker. W. A. Magee and Chas. R. Brock are interested.

SANTA MONICA, CAL.—Board of Trustees have adopted resolution for the construction of necessary water-works, conduits, machinery, pumping plants, etc., estimated to cost $150,000.

SAUSALITO, CAL.—Sausalito "News" is advocating $5,000 bond issue for water-works improvements.

SELMA, CAL.—Local reports state that Livermore Bros. have secured contract from Lake Land & Canal Co. to build a $30,000 irrigation canal.

WEST GLENDALE, CAL.—West Glendale Water Co. has been incorporated with $20,000 capital. M. S. Albright and P. H. Bullis are interested. Post-office, Los Angeles.

WHITTIER, CAL.—City may vote on bond issue for water-works improvements. New steel 18-in. main and additional pumping facilities are needed. Est. cost is about $100,000.

MONTE VISTA, CAL.—Articles of incorporation have been filed for The Farmers' Union Reservoir & Ditch Co., with headquarters at Monte Vista. The company is capitalized at $100,000. The directors are Lewis H. Cheney, Jesse M. Warden, Myron M. Sutley. The company will acquire and maintain water rights, build reservoirs and operate ditches. The water used for irrigation purposes will be taken from Clear Creek, North Clear Creek and Sheep Creek, all tributaries of the Rio Grande. The ditches will extend into Rio Grande, Saguache, Costilla, Mineral and Hinsdale counties.

BISBEE, ARIZ.—Isaac Bailey has presented a proposition to the City Council for a water system and electric light plant, est. cost of which is $385,000.

PRESCOTT, ARIZ.—Bids are asked until Aug. 27 for construction of water distributing system and reservoir. Capt. Chas. C. Walcutt, Q. M., U. S. A. (AdvertiNsed, Engineering News.)

TUCSON, ARIZ.—The Mayor has suggested that new wells be dug and pipe ordered for increasing water supply.

CULDESAC, IDAHO.—M. F. Mendenhall, Spokane, Wash., has secured water-works franchise here, and will probably install system to cost about $15,000.

GIFFORD, IDAHO.—New company has been organized here to drill wells and furnish water supply.

TROY, IDAHO.—Town votes to issue $4,430 of bonds for installing water-works.

RENO, NEV.—Bids were opened here July 15 by U. S. Reclamation Service for construction of 37 miles of canal distributing system, for Truckee-Carson irrigation project. The Pacific Coast Construction Co., Portland, Ore., was low bidder for excavation and embankments, at a total bid of $195,887.

WOODSTOCK, N. B.—Water and Light Commissioners are considering purchase of new pump, to cost $7,000.

THAMESVILLE, ONT.—Town votes to raise $13,700 for installation of water-works.

DARTMOUTH, N. S.—Town Council is stated to be considering extension of water system. Superintendent Bishop has est. cost of North End water and sewer extension at $60,000, and cost of new main from Yorke's at $20,000.

SUMMERSIDE, P. E. I.—City has voted to construct water-works and sewerage.

NORTH BAY, ONT.—Water-works are to be installed here at a cost of $27,000; also sewers to cost $30,000.

EAST TORONTO, ONT.—Ratepayers vote to raise $55,000 to establish independent water-works.

OUTREMONT, QUE.—City may issue $50,000 of bonds for water-works, sewers, etc.

DALHOUSIE, N. B.—Construction of water-works, to cost $40,000, is contemplated.

VICTORIA, B. C.—Local reports state that W. W. Northcott is asking bids until Sept. 19 for 12,000 ft. of 4-in. cast-iron water pipe, as per standard specification of the Victoria Water-Works.

WINNIPEG, MAN.—Bids are asked by Chairman Fire, Water and Light Committee until Aug. 15 for supply of 1,000 ½-in. meters. C. J. Brown, Cy. Clk. (Advertised, Engineering News.)

SEWERAGE.

HAVERHILL, MASS.—Board of Aldermen has under consideration the construction of several sewers.

BROOKLINE, MASS.—Michael J. O'Hearn was awarded contract, at $3,216, for sewer and drain in Heath St.

LOWELL, MASS.—Council sewer committee will ask for an appropriation of $35,000 for sewer work to be constructed during the remainder of the year.

BOSTON, MASS.—Bids were received by Transit Commission for construction of a brick sewer, vitrified pipe sewer and concrete sewer in Summer St. on account of Washington St. subway. Bid for tunnel method of construction submitted by Peter W. Hill, at $34,585, was the lowest. E. W. Everson & Co., by open cut method, were the lowest bidders, at $35,308.

FAIRHAVEN, MASS.—Town has voted to build a system of sewers for Oxford; $5,000 has been appropriated.

AMSTERDAM, N. Y.—A. Pantalone has been awarded contract for 8-in. sewer; 2,200 ft. long, including 176 ft. iron across creek, at $2,807, we are informed by F. E. Crane, Cy. Engr.

NIAGARA FALLS, N. Y.—W. W. Read & Co. have Highland Ave. sewer contract, at $2,579.

DANSVILLE, N. Y.—On Aug. 1 village will vote upon question of sewerage. System would cost $84,000, for which bonds would be issued.

CUBA, N. Y.—A special election will be held on Aug. 2 to vote upon question of constructing a sewer system. Estimated cost, $57,100.

SAUGERTIES, N. Y.—Knight & Hopkins, Engrs., Rome, N. Y., write us that bids were received on July 22, as advertised for in Engineering News, for building pipe sewers. Wieber & Watson, of Kingston, were lowest bidders, at $69,086.

LAMBERTVILLE, N. J.—Cost of a proposed sewer system here has been estimated at $41,000 to $50,000 by G. Everett Hill, of New York. Councilman James D. Mackay is interested.

NEWARK, N. J.—$265,000 sewer bonds have been disposed of. Resolution has been passed directing Engineer Potter to prepare plans, etc., for sewers in sections of Scotland road and Raymond Ave.

HARRISON, N. J.—Bids are asked until Aug. 2 for the construction of several sewers. E. J. Rice, Chn. of Com.

WEEHAWKEN, N. J.—Bids are asked by the town of Union Council, Emil Bautz, Clk., until Aug. 1 for the construction of a 15-in. vitrified pipe sewer in Third St.

TRENTON, N. J.—New Jersey Supreme Court has declared to be constitutional the acts under which the state purposes to empty the sewage of the Passaic Valley into New York Bay by means of a trunk sewer. The total cost of this work is estimated at from $8,000,000 to $10,000,000. These acts were passed in 1902 and 1903, and were attacked by certiorari by the city of Paterson and Frank Van Cleve, a citizen of the state. Dr. Daniel Lewis is in charge of the commission appointed by Governor Odell to determine the extent to which the public health of New York would be menaced by the construction of this sewer. He is reported to have stated that the commission probably would not be able to make a final report before the latter part of September.

READING, PA.—Bids are asked until Aug. 18 for installing various house sewers. Board of Public Works Clerk may be addressed.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

LEWISTOWN, PA.—Bids are asked by Borough Sewer Committee until Aug. 20 for construction of about 93,000 ft. of sewers. J. Murray Africa, Engr.; H. C. Smith, Clk Council. (Advertised, Engineering News.)

MILTON, PA.—W. L. Lenker, Engr., 405 Chestnut St., Sunbury, Pa., writes that bids are asked for sewer work. Bids will be advertised soon for 5,000 yds. of brick street paving here.

FAYETTE CITY, PA.—Contract for 6,000 ft. of additional sewers has been awarded to Thomas Arrigo, of Charleroi. Bids will be asked in a few days for 6,000 sq. yds. of brick paving here. Smallwood & Phillips, Civil Engrs., Charleroi, are in charge.

DUNMORE, PA.—Bids were opened at a special meeting on July 22, James F. Horan, Boro. Engr., writes us, for 1,200 ft. of 12 and 10-in. pipe sewers, with average cut of 10 ft. M. J. Gibbons was lowest bidder, at $3,757.

WILMINGTON, DEL.—The United Sewerage Co., capital, $500,000, has been incorporated by Ralph C. Lupton, C. A. Darby and S. F. Caursen.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until Aug. 22 for constructing portion of sewage disposal system, B St. and New Jersey Trunk Sewer. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked by the District Commissioners until Aug. 15 for constructing sewage disposal system, Water and L St. intercepting sewer. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

ROANOKE, VA.—Council has appropriated $26,000 for the extension of the sewer system, as follows: Highland ward, $10,000; Jefferson ward between Fifth and Eleventh Sts., $6,000; Kimball ward, $4,000; Melrose ward, $6,000.

HOLLINS, VA.—John N. Ambler, Salem, Va., writes that he is designing a complete sanitary sewage plant for Hollin's Institute. Construction work will begin in about two weeks.

ROCKY HILL, S. C.—Sewer system is proposed for this city.

ABERDEEN, MISS.—A. L. Dabney, Constructing Engr., Memphis, Tenn., will make plans and specifications and supervise the building of water-works and sewer system, for which $70,000 in bonds was reported voted. Previously mentioned.

NASHVILLE, TENN.—The Nashville Plumbing Co. has been awarded a contract for sewer work, aggregating 1,550 ft., at $3,965.

LEXINGTON, KY.—City will vote November 8 on the issuance of $100,000 of bonds for the construction of sewer system; not more than $50,000 would be expended the first year.

NEWPORT, KY.—Bids for 12th St. trunk sewer were received. F. L. McLane was lowest bidder, as follows: Brick, $13,902; concrete, $15,261; for lateral sewers, Dist. 8, $1,643; Orchard St., $2,612.

COLUMBUS, O.—Plans and specifications for improved sewerage and for sewage disposal plant, for which bids are advertised in Engineering News, are on file at New York office of Engineering News. Bids will be received Aug. 10.

DAYTON, O.—Bids were received for construction of sewers in districts Six and Seven. W. O. Herron, Pittsburg, Pa., was lowest bidder on West Side sewer contract, at $148,835. James Reed, City, was the lowest bidder on East End contract, at $9,825. Wm. F. Miller is Clk. of Bd. of Pub. Service.

LORAIN, O.—Bids are asked until Aug. 4 for constructing sewers.

Bids will be received until Aug. 2 by J. J. Mahony, City Auditor, for constructing a sewer system to cost about $12,000.

LOCKLAND, O.—L. W. Mathewson, C. E., Cincinnati, writes us that proposition to issue $100,000 bonds for sewers and paving was defeated at recent election.

CLEVELAND, O.—Mexican Sewer Pipe Co. has increased capital from $250,000 to $500,000.

XENIA, O.—The Board of Public Service has let contract to William Huonke, Springfield, O., at about $39,000, for the construction of lateral sewers in parts of Districts Nos. 1, 2 and 6. J. E. Jones, Clk.

HANCOCK, MICH.—Cost of West Hancock sewers has been estimated as follows: District No. 1, $5,000; District No. 2, $6,400; District No. 3, $15,000.

EAST ST. LOUIS, ILL.—Bids are asked until Aug. 13 for construction of outlet sewer and pumping works, as mentioned last week. Approximate quantities in outlet sewer as follows: 52,530 cu. yds. masonry in sewer and manholes; 260,788 cu. yds. earth excavation; 122 manhole covers.

CHICAGO, ILL.—Bids will be received until Aug. 1 for $5,000,000 of municipal improvement bonds. The improvements include various sewer work.

Bids are asked until Aug. 3 by Board of Local Improvements for constructing Jackson Ave. system of sewers and sewage pumping station. Andrew M. Lynch, Pres.; John A. May, Secy.

SPRINGFIELD, ILL.—Bids are asked by Park Board until Aug. 17 for constructing about 1,835 ft. 5-ft. circular sewer, either brick or concrete. Arthur Hay, Secy.-Engr. (Advertised, Engineering News.)

FOND DU LAC, WIS.—Bids are asked until Aug. 3 for the following sewers: 535 ft. 24-in., 1,575 ft. 18-in., 60 ft. 15-in., 50 ft. 10-in., 695 ft. 8-in., and 432 ft. 6-in.; five manholes and seven catch-basins. G. H. Stanchfield, Cy. Engr.

SUPERIOR, WIS.—Newton Ave. sewer contract has been awarded to Anderson & Johnson, at $6,193.

JANESVILLE, WIS.—C. V. Kerch, Cy. Engr., writes that bids are asked until Aug. 5 for the construction of sewers in Districts 5, 6, 11 and 12. Work approximates: 27,031 ft. 8-in. sewer, 2,838 ft. 10-in., 2,373 ft. 12-in., 725 ft. 15-in., 1,686 ft. 18-in., 648 ft. 24-in., 881 ft. 27-in.; 103 manholes; 19 lampholes.

DE PERE, WIS.—Bids are asked until Aug. 9 for constructing several sewers. W. S. Hager, Com. on Sewers.

INDEPENDENCE, IA.—R. C. De La Hunt, Cedar Rapids, Ia., was awarded the contract, at $5,250, for constructing sewer. A. T. O'Brien is Chn. Committee on Sewers. Alvord & Shields, Engrs., Chicago, Ill.

WEBSTER CITY, IA.—All bids were rejected for the Division St. sewer. Lowest bidder was the W. N. Dearborn Co., Stone City, at $9,000.

CORNING, IA.—Bids are asked until Aug. 3 for building a sanitary sewer. S. E. Day, Cy. Clk.

WAHOO, NEB.—Proposition to issue $15,000 of sewer bonds was voted at recent election.

GREAT FALLS, MONT.—Contracts for sewers were awarded on July 18, as follows: West Side sewers, H. C. Brown, at $11,116; First Alley South sewer, Taylor & Pellew, at $2,956.

WHARTON, TEX.—Eidelbach & Co., City, were awarded the contract at $2,100, for sewers. T. L. Smith, Jr., Engr., Eaglelake, Tex.

SEATTLE, WASH.—Twelve miles of sewers will be constructed in the Rainier Valley District. Council had approved resolution providing for a trunk line.

A septic tank will be built west of the Latonia bridge. It will be 90 × 12 and 7 ft. deep.

PORTLAND, ORE.—Four bids were received for repairing the Tanner Creek sewer. All bids were rejected and new ones will be advertised for. City Engineer's estimated cost of work was $25,000. Bids received ranged from $38,050 to $44,300.

OGDEN, UTAH.—L. C. Kelsey was awarded contract for sewer work in District 9, at $41,498.

BOISE CITY, IDAHO.—James Kennedy, of Fargo, N. D., has been awarded contract for extensive sewer and water main works here, it is reported. Value of contract is $130,000.

ARCATA, CAL.—The contract for laying sewers has been awarded to the Stanley Contracting Co., of San Francisco, at $24,996.

SAN MATEO, CAL.—D. Bromfield, Cy. Engr., has completed plans for a sewer system for San Mateo Park. Baldwin & Howell, agents for the park, announce that work will be commenced within the next 30 days.

SANTA MONICA, CAL.—Ordinance was adopted by City Trustees providing for the construction of repairs to outfall sewer and that Main Sewer No. 1 be extended from its terminus on Colorado St. Estimated cost of improvements, $21,000.

LOS ANGELES, CAL.—Council has adopted the specification for the construction of storm drain sewers. Bids will be called for some time in August. Bonds for this purpose have been voted and sold by the city and the sum of $400,000 is now available.

S. J. Edwards, of Pasadena, who was awarded the contract to construct the outfall sewer for $565,000, has assigned his contract to Charles Stansbury and C. L. Powers, local contractors.

GARBAGE DISPOSAL—STREET CLEANING

CRAFTON, PA.—Bids are asked by Borough Clerk until Aug. 2 for constructing garbage plant, to include furnace, brick building and brick stack; bidders to furnish plans and specifications.

LOS ANGELES, CAL.—Bids are asked by City Clerk until Aug. 8 for furnishing city with two street-sweeping machines. H. J. Lelande, Cy. Clk.

STREETS AND ROADS.

MEDFORD, MASS.—Board of Aldermen voted to issue $17,500 bonds for the purpose of repaving High St.

NORTH ANDOVER, MASS.—A number of streets will soon be macadamized. Wm. Gile is Supt. of Sts.

HAVERHILL, MASS.—The work of abolishing the grade crossings will be commenced on Sept. 1 and will be carried out according to the pains of the civil engineers of the Boston & Maine R. R. H. W. Hayes, Ch. Engr., Western Div., can inform.

BOSTON, MASS.—The contract for building the Dudley road was awarded by the State Highway Commission to Terranti & Maguire, of Worcester, for $3,662.

PROVIDENCE, R. I.—A new State road will be constructed in the town of Smithfield.

WINDSOR LOCKS, CONN.—The Selectmen are contemplating the macadamizing of Elm St., in the fall.

FORT WRIGHT, CONN.—Bids were opened at office of constructing quartermaster at Fort H. G. Wright, Fishers' Island, July 15, for constructing macadam road at the fort. The items of the contract were the construction of a macadam road 16 ft. wide from the main road to the pumping station, a distance of about 1,375 ft., extension of the main road 25 ft. wide for about 300 ft., with cobblestone gutters, and to place an inch top dressing of trap screenings on the main road over about 6,940 sq. yds. of surface. The lowest bidder for the total contract was The Lane Construction Co., of Meriden.

NEWINGTON, CONN.—Plans for 1⅛ miles of macadam road for this town have been approved by Highway Commissioner McDonald at Hartford, and bids will now be received. W. H. Caldwell, of New Britain, is Engr.

NEW HAVEN, CONN.—City Engineer Kelly has made a survey of the land at the foot of East Rock park which the horsemen of the city have in view for the purposes of a speedway.

MANCHESTER, CONN.—Bids are asked by Board of Selectmen until August 8 for grading and construction of about 3,500 lin. ft. of macadam road. Maps and specifications may be seen and blank forms of proposals obtained at the Hall of Records, in South Manchester.

ONEIDA, N. Y.—Bids are asked by Chas. M. Ruggles, Cy. Clk., until Aug. 4 for construction of a pavement in Vanderbilt Ave.

ALBANY, N. Y.—Ordinance authorizing the paving of Partridge St. is before the Common Council. Frederick U. Bresler, Clk. of Council.

Bids are asked by Henry A. Van Alstyne, State Engr. and Surveyor, until Aug. 12 for the improvement of several roads. Plans and specifications may be seen at the office of State Engineer.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of Bronx, Municipal Bldg., Third Ave. and 177th St., until Aug. 4 for improving several streets by grading, curbing, flagging sidewalks, etc.

Bids are asked by John F. Ahearn, Pres. Boro. Manhattan, until Aug. 3 for regulating and paving with wood blocks on Cortlandt and Murray Sts.

LONG ISLAND CITY, N. Y.—Bids are asked by Jos. Cassidy, Pres. Boro. Queens, until Aug. 1 for curbing, paving with asphalt, grading, etc., on a number of streets.

ALBANY, N. Y.—Bids are asked by Board of Contract and Supply until Aug. 1 for improving several streets by grading, curbing, paving, etc. Isadore Wachsman, Clk. of Bd.

WHITE PLAINS, N. Y.—Bids are asked by Board of Trustees until Aug. 1 for laying and relaying 4 ft. flag walks on several streets. Profile may be seen at office of John H. Carpenter, Village Engr., Central Bank Bldg. Peter Paulding, Clk.

BROOKLYN, N. Y.—Borough President Littleton has signed the contract for paving on Atlantic Ave. with asphalt. It will take 30,000 sq. ft. of asphalt to cover the avenue, and the contract price is $1.12 a sq. ft. The Uvalde Asphalt Co. has the contract.

BUFFALO, N. Y.—Common Council intends to order Heward Ave. paved, 26 ft. wide, with round edge fire clay brick on macadam base. Plans and specifications on file in office of Bureau of Engineering. Chas. F. Susdorf, Cy. Clk.

NIAGARA FALLS, N. Y.—Board Public Works received a bid July 14 from Hoffman & Co. for paving alley running from Niagara to Ontario Ave. for $1,332. The bid was incorrect and rejected, the City Clerk being instructed to readvertise for bids.

ASPINWALL, PA.—Bids are asked by Borough Clerk, 103 Eastern Ave., for grading, paving and curbing on Commercial St.

BRADFORD, PA.—Bids are asked until Aug. 8 by the State Highway Department, at Harrisburg, for constructing 16,237 ft. of road leading from Bradford City to Gillmor, in Foster Township.

HOLLIDAYSBURG, PA.—Borough voters authorized the Council to expend $40,000 for a municipal hall, street improvements and a municipal sewerage system.

KITTANNING, PA.—Councils have enacted an ordinance providing for the issuance of bonds for paving and sewering a number of streets.

HARRISBURG, PA.—For the year beginning June 1, 1904, there is available for maintenance of roads $50,000, and for improvements, $450,000. Dauphin County has been apportioned $6,141; Lancaster, $14,468; Lebanon, $4,221; Mifflin, 2,251; Franklin, $7,489; Cumberland, $6,418; Perry, $5,109; York, $16,562. About 213 miles of good road will be made this year.

TARENTUM, PA.—Borough will issue bonds for grading, paving and curbing East Tenth Ave., Second Ave. and Potter St.

NORFOLK, VA.—Council has passed an ordinance making an appropriation of $18,313 for the purpose of asphalting Granby St. boulevard.

NEW ORLEANS, LA.—An ordinance directing the City Engineer to prepare plans and specifications for the paving with asphalt of several streets, including a system of sub-surface drainage, and the Comptroller to advertise for bids, was adopted by City Council. T. W. Campbell, Clk.

CHATTANOOGA, TENN.—Bids are asked by Capt. W. H. French, Q. M., U. S. A., until July 30 for completing the construction of Forrest road at Chickamauga Park.

ASHLAND, KY.—Bids are asked by R. R. Richardson, Cy. Clk., until Aug. 1 for paving several streets with vitrified brick upon a 6-in. concrete foundation, with concrete curb and gutter, aggregating approximately 42,500 sq. yds. paving and 12,400 lin. ft. curb and gutter.

LEXINGTON, KY.—Plans are being prepared for the widening of Bruce St.

COVINGTON, KY.—The Board of Aldermen passed ordinance providing for the paving of Scott St. with brick. Bids for the work will soon be asked for.

TOLEDO, O.—The contract for paving Superior St. has been let to Burdette & Sheehan. Cost, $8,533.

IRONTON, O.—Bids are asked until Aug. 9 by the Board Public Service for paving with brick or block on a furnace cinder foundation on a portion of Park Ave., and until Aug. 11 for paving with similar material on a portion of Center and Vernon Sts. Geo. H. Davies, Clk.

BEDFORD, O.—Bids are asked until July 30 for improving with slag or crushed stone Northfield road and Union St. Frank B. Bromley, Village Clk.

LEBANON, O.—Bids are asked by Council until Aug. 2, for improving alley E from Main St. to Mulberry St., by grading and paving with concrete, according to plans and specifications on file in office of R. B. Corwin, Clk.

SANDUSKY, O.—Board Public Service will advertise for bids for the improvement of First and Camp Sts. and Washington Row.

BARNESVILLE, O.—The Council has passed an ordinance to pave South St.

ALLIANCE, O.—Council has adopted a resolution for the sewering and paving of West Fifth St. Resolution was also adopted for the paving of South Union Ave. with brick.

WELLSVILLE, O.—Resolution was passed by Council to pave Front St.

COLUMBUS, O.—City Council passed resolutions providing for the repair of High, Broad, Fourth and Long Sts. City Engineer Griggs estimates the cost at $46,738.

CINCINNATI, O.—Contract for paving Seventh St. was awarded by Board Public Service to the Kirchner Co., for $4,148.

WARREN, O.—Thorn and East Market Sts. will be paved with asphalt blocks.

CHARDON, O.—The paving of Main St. is being considered by Village Council.

CINCINNATI, O.—Scott St. will be paved with brick.

A contract for improving Regina Ave. was awarded to the L. Drach Const. Co. July 14 by Board Public Service for $5,063.

COLUMBUS, O.—Board Public Works has notified all the railway and interurban lines to at once repair the pavement within their tracks and one foot on each side.

FREMONT, O.—Bids are asked by Board Public Service until Aug. 16 for about 28,688 sq. yds. paving, 10,100 lin. ft. curb reset; also 5,950 ft. 9, 15, 18, 20-in. sewers. Geo. W. Lesher, Cy. Engr.; C. H. Bauman, Clk. (Advertised, Engineering News.)

BLUFFTON, O.—Specifications for paving Cherry St. with vitrified brick on file in office of Engineering News, 220 Broadway, New York. Bids asked until Aug. 8.

VERNON, IND.—Bids are asked by Jennings County Commissioners until Aug. 1 for construction of 2.63 miles of pike road in Center Township, according to plans and specifications in office of W. S. Campbell, County Audr.

BEDFORD, IND.—Bids are asked by Lawrence County Commissioners until Aug. 4 for constructing gravel or macadamized roads in Bono, Indian Creek and Marion Townships. Walter G. Owens, County Audr.

CENTERVILLE, IND.—Fred. Charles of Richmond, has been employed as engineer to make plans and superintend the laying of several miles of cement ewalks in th city. Bids will be received in about o weeks. Ad dress Town Clerk.

INDIANAPOLIS, IND.—Bids are ask y Board Pub lic Works until Aug. 1 for grading and rbing roadwa and paving sidewalks with cement in Salle St. an State Ave. Plans and specifications on e in office o Board.

HOUGHTON, MICH.—City Engineer S kley has re ommended a new grade for Ravine St.

LA CROSSE, WIS.—The La Crosse ne Co., 20 Pearl St., City, has received the contra r paving 9th 11th, 12th and Main Sts. with granite macadam a $18,484.

DES MOINES, IA.—Resolutions were sed by Ci Council to curb Pennsylvania Ave. and 29th St. i accordance with plans and specification urnished by City Engineer. N. B. Vertrees, Cy. Clk.

OTTUMWA, IA.—Council is considering ing on Eas Second, Vine and Marion Sts.

IOWA CITY, IA.—Washington St. will paved wit brick and curbed with stone.

DES MOINES, IA.—Bids are asked by oard Publi Works until Aug. 11 for paving Scott St. ith vitrifie paving brick, about 2,850 sq. yds. pavin Plans an specifications on file in office of Board.

Bids asked at the same time for curbing West 12th St. with Portland cement, about 2,640 lin.

LAWRENCE, KAN.—Resolutions were adopted by Council providing for the curbing and paving with vit rified brick of Indiana and Adams Sts. Frank D. Brook Cy. Clk.

ST. PAUL, MINN.—The Board Public Works has decided to send to the Council the final order for pavin West Third St. with asphalt. The Board will also fav paving Third St. with sandstone at $4.60 per front foo

County Commissioners voted into next year's budg $45,000 for the road and bridge fund.

ST. JOSEPH, MO.—The Board Public Works is considering a petition for paving on Main St. with brick.

KANSAS CITY, MO.—Isaac Robinson was awarded th contract for macadamizing Independence road by th City Engineer for $13,607.

TRENTON, MO.—Bids are asked by Stephen M. Hil Cy. Clk., until July 29 for construction of a brick pavement on Elm St. Plans and specifications on file i Clerk's office.

CANON CITY, COLO.—Bids are asked until Aug. 1 fo constructing about 200,000 sq. ft. 5 ft. cement sidewalk 10,000 lin. ft. cement crosswalks. Specifications will b furnished by W. R. Smythe, Cy. Engr.

SEATTLE, WASH.—The following contracts have bee awarded by Board Public Works for constructing concrete walks: East Madison St., Sparger Concrete Co $10,909; East Fir St., Frank & Brandon, $1,073; Ea Cherry St., John McGowan, $10,978.

Ordinances have been passed ordering the sewering o Melrose Ave., North, $1,450; paving of Spring St. an Boren Ave. with asphalt, $15,494; grading and laying concrete walks on Galer St. and Warren Ave., $1,260.

Bids are asked by Board Public Works until July 3 for paving Boren St. and laying concrete walks on A ler and East Pine Sts. Est. cost, $18,644. R. H. Thomson, Cy. Engr.

WALLA WALLA, WASH.—The City Council awarde the contract of paving 13 streets to the Barber Asphal Paving Co., of Seattle. The amount of the contract wi be about $100,500. The work will be commenced at onc

TACOMA, WASH.—Bids were advertised some ti ago for the grading of South M St. The City Engineer' estimate was considered too low by the contractors an no bids have as yet been received by Commissioners o Public Works.

The ordinance providing for the paving of C St. w passed by the Council.

Specifications are being prepared at the office of E gene Ricksecker, Govt. Engr., for the extension of th government road from Longmire Spring to Paradise Par on the upper slope of Mount Tacoma. Bids will be calle for as soon as the specifications are completed.

SAN FRANCISCO, CAL.—Grades were ordered esta lished by Board Public Works on Mission St. prepar tory to the bituminizing of the street for which $80,0 has been appropriated.

LONG BEACH, CAL.—W. E. McCrary has purchas five acres of land on American Ave., and will expe several thousand dollars in making an athletic park.

LOS ANGELES, CAL.—A recommendation will be ma to City Council by Board Public Works that San Ped St. be opened. Est. cost, at $150,000.

SAN FRANCISCO, CAL.—Automobile owners are co sidering the matter of construction of a 27-mile au speedway connecting this city with Redwood City. D Harry Tevis has offered to give $25,000 toward the projec An attempt will be made to have the city build a ro to county line, where speedway is planned to begin.

MANUFACTURING PLANTS.

NORWICH, CONN.—Plans have been drawn for a pla which Michael J. Green, a silk manufacturer of Pate son, N. J., will erect on Golden St. The main structu will be a two-story brick building, 50 × 202 ft., and mill construction. The plans also call for the erectio of a power plant 19 × 51 ft.

GLENS FALLS, N. Y.—Finch, Pruyn & Co., just inco porated with a capital stock of $3,000,000, will begin once the construction of new paper mills with a da capacity of 75 tons and pulp mills of sufficient capacity supply their own wants.

PITTSBURG, PA.—The capital of the National Le Co. will be increased from $30,000,000 to $50,000,000 take over the United Lead Co.

PHILADELPHIA, PA.—J. E. & A. L. Pennock, La Title Bldg., have been awarded the contract for an add tion to a machine shop at 48th and Merion Ave. for th Standard Roller Bearing Co. Brick and steel, 2 storie 250 × 150 ft. Cost, $25,000.

MEYERSDALE, PA.—It is reported that Thomas Costello, of Cumberland, Md., and Albert F. Baumgarte of Pittsburg, will locate a new steel plant here.

POTTSVILLE, PA.—The Otto Knitting Co. has inco porated with a capital of $10,000.

PITTSBURG, PA.—John W. Garland, Pres. Industri Nat. Bank, is head of company which will erect a la silk mill at West Pittsburg.

BALTIMORE, MD.—Brooks & Rogers, contractors, a figuring upon estimates for a large warehouse and factor which the Southern Embroidery Co. purposes to er on Waesche St., near Fremont Ave. The new buildi will be 96 × 108 ft. and will have three stories

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CHASE CITY VA.—The Kershaw Mfg. Co. will increase capital from $5,000 to $50,000.

CHARLESTON, W. VA.—The Kelly Axe Mfg. Co., of Alexandria, Ind., will remove their plant to this place. The new brick and steel buildings which are to be erected will cover above 40 acres of land.

DURHAM, N. C.—The Swift Co. will erect a cold storage plant here.

CLINTON, S. C.—The Clinton Cotton Mill Co. has increased its capitalization from $150,000 to $300,000. The directors are M. S. Bailey, W. J. Bailey, R. L. Bailey, and others.

COLUMBIA, S. C.—The Clinton Cotton Mill. Co. has increased its capitalization from $150,000 to $300,000. The directors are M. S. Bailey, W. J. Bailey, R. L. Bailey and others.

CAMDEN, S. C.—The DeKalb Cotton Mills, capital $300,000, will be remodeled. Chas A. Gambrill, of Charleston, is Pres.

WHITMIRE, S. C.—The Whitmire Mfg. Co. has incorporated with $10,000 cap. stock and will erect a factory. The incorporators are: J. V. Thomson, W. H. Rosor and C. Scott.

EATONTON, GA.—The Eatonton Mfg. Co., capital $25,000, has applied for a charter to manufacture cotton seed planters, guano distributors and farm tools. L. G. Green is Pres.

WAYCROSS, GA.—J. P. Lide and W. A. Sweat, of Fairfax, Ga., will erect a shingle mill near this place.

COLUMBUS, GA.—Major J. F. Hanson, of Macon, Ga., and associates, are negotiating with the North Highlands Land Co. for the purchase of a tract of land between Bibb City and the lands of the Chattahoochee Falls Co. It is understood that the Bibb Mfg. Co. will erect another large cotton mill on North Highlands. It is also reported that John A. Abney, formerly of Columbus, now connected with cotton mills at Laurens, S. C., is to return to this city and erect a cotton mill.

WAUCHULA, FLA.—J. R. Hodson will erect a crate factory here at a cost of $10,000.

New York capitalists will probably at an early date establish here a large plant to utilize the waste of Huntsville cotton mills. Buildings have already been secured for the plant. Col. W. J. Wellman can inform.

JACKSONVILLE, FLA.—E. J. N. Padgett, of Leesburg, and John Burgeson will organize a company to establish a factory to make sand lime brick. The promoters can be addressed at the Aragon Hotel, this city.

FLORENCE, ALA.—The plant of the Florence machine shops in East Florence has been purchased by Geo. L. Hoxie and Allen H. Kells of Adrian, Mich., who will establish a plant for the manufacture of clay-working machinery, friction clutches and other machinery.

JACKSONVILLE, ALA.—A contract was awarded to Duke & Journey of Jacksonville for construction of a $100,000 cotton factory here. Their bid was $36,000. Other bids were: Southern Const. Co., Birmingham, $46,438; T. C. Thompson & Bros., Birmingham, $37,618; Thomas Wolsoncroft & Co., Anniston, $36,210; L. A. Clardy & Co., Talladega, $37,250. Work is to begin at once. The contract provides for building the mill, warehouse and stack.

MONTGOMERY, ALA.—Fire destroyed the plant of the Alabama Rift Flooring Co. The loss is estimated at $75,000. The plant consisted of a large planing mill, two dry kilns, a large shed, dust house and boiler room. The whole covered four acres.

HUNTSVILLE, ALA.—The Lowe Mfg. Co. has awarded to Thompson & Bro., of Birmingham, a contract for construction of a mill. The new mill will be constructed to accommodate 11,000 spindles in its mills Nos. 1 and 2.

FLORENCE, ALA.—The Bellamy Planing Mills. in East Florence have been sold to A. M. Llewellyn, of Huntsville, and W. C. Henderson, of Savannah, Mo. The new owners will add new machinery and make extensive improvements.

CITRONELLE, ALA.—H. Detno will build an ice factory and electric light plant here at a cost of $10,000.

ABERDEEN, MISS.—A factory for the manufacture of handkerchiefs, suspenders, underwear and neckwear will be established here by J. R. Young, and T. J. Davenport, for which electric power machinery is wanted. Address J. R. Young.

PROSPECT, MISS.—Thomas Davidson will erect a saw mill here at a cost of $12,000.

UTICA, MISS.—The Utica Mfg. Co. will erect an ice factory and steam laundry here.

COLUMBUS, MISS.—A yarn and cordage mill, capitalized at $30,000, will be erected here. The plant will also make rope and twine. B. N. Love will be manager.

OPELOUSAS, LA.—Brick works of 25,000 bricks daily capacity will be erected here by O. C. Devilliers.

A cotton gin with compress attachment will be erected here by Hyman, Hiller & Co. and Robt. Chachare.

KNOXVILLE, TENN.—A cold storage plant to cost $200,000 will be established here by W. J. Oliver and associates.

CLINTON, TENN.—A foundry will be erected here by a company of which C. J. Sawyer is secretary, and R. J. Evans, treasurer.

CHATTANOOGA, TENN.—E. R. Betterton and associates, all of this city, will at once erect a manufacturing plant to cost about $25,000.

NASHVILLE, TENN.—The Capital Grain Co. has been organized with $70,000 capital. The incorporators are R. W. McLemore, J. B. McLemore, Sam Pointer, Joe Fox, Wm. Cheairs and F. G. Lester. A plat of land in West Nashville has been purchased, and on this a modern elevator and warehouse will be erected at once. The capacity of the plant will be from 200,000 to 250,000 bus.

KNOXVILLE, TENN.—The Knoxville Basket Factory has been organized to manunfacture split baskets, crates, boxes, etc. E. L. Gibson, of Chattanooga, will be superintendent.

The Knoxville Woolen Mills have increased their capital to $150,000. L. D. Tyson, R. P. Gettys, J. A. McKeldin, and others are the stockholders.

OWENSBORO, KY.—Cooper Bros. will erect a brick plant here.

CLEVELAND, O.—The Cleveland Fire Engine Mfg. Co. has incorporated with a capital stock of $50,000. The company will manufacture a new kind of chemical engine, recently invented by C. D. Stone, of this city.

ZANESVILLE, O.—Findeiss & Heckel tannery was destroyed by fire. Loss, $40,000.

JANESVILLE, WIS.—The plant of the Rock River Cotton Co., which was destroyed July 4, will probably be rebuilt at once. The company estimates its loss at $35,000.

MADISON, WIS.—It is announced that a mill costing $300,000 will be erected as soon as the necessary plans can be completed by the Eagle Portland Cement Co., which has been incorporated with a capital of $600,000. Between 600 and 700 acres of land have already been obtained by the incorporators in the town of Eagle. Surveyors and engineers are already at work locating the deposits, and as soon as they have completed work on the buildings will begin. Lawrence Fardy, Sr., Wm. H. Lindwurm and James E. De Baufer are the incorporators.

VINCENNES, IND.—The Vincennes Bridge Co. has awarded the contract for erecting its new building to the D. W. Norton Co. An expenditure of over $10,000 will be made. Concrete blocks are to be used in the construction.

GRAND RAPIDS, MICH.—Plans for the erection of a general factory building by the Board of Trade are maturing and estimates from contractors are looked for within a short time. The cost will probably be about $100,000. Dudley E. Waters is having prepared a general outline plan of the factory which will soon be given to contractors.

DAVENPORT, IA.—The Davenport Locomotive Works have let a contract for additions to forge shops and woodworking plant, 60 × 120 ft., and 60 × 50 ft., respectively. A. E. Rosenthal is Genl. Sales Mgr.

BROWNSVILLE, TEX.—The People's Ice & Mfg. Co. has been chartered with a capital stock of $70,000. Incorporators: J. T. Conner, J. S. Conner, Brownsville; S. C. Tucker, Hattiesburg, Miss.

DENISON, TEX.—The capacity of the Denison Mattress factory will be enlarged and new machinery added. N. Marsico is proprietor.

FORT WORTH, TEX.—Kuhen & Uglow are preparing to make extensive improvements to their bottling works here.

LAWTON, OKLA.—The Lawton Ice & Fuel Co. has increased its capital to $25,000 and will erect a broom factory of 20 doz. brooms daily capacity.

REDLANDS, CAL.—Harris & Pratt, Archs., have completed plans for the new packing house to be erected for the Redlands Golden Orange Assn. The latest improved machinery will be installed.

CLIPPER MILLS, CAL.—The Clipper Mills Lumber Co. has been incorporated by J. M. Beck, W. J. Pierce and others with $100,000 cap. stock. The mills will be located here and office will be in Pasadena.

MISCELLANEOUS CONTRACTS.

DITCH.—Park Rapids, Minn.—Hubbard County Commissioners will establish a ditch east of Hubbard.

FIRE CISTERNS.—Dayton, O.—Board Public Safety is considering erection of fire cisterns at a cost of $20,000.

DAM.—Pittsburg, Pa.—Barker & Egan, Farmers' Bank Bldg., Pittsburg, Pa., was low bidder, at $91,665, July 13, for constructing Chanoine Dam.

HARBOR IMPROVEMENT.—Cohansey, N. J.—$7,000 has been received for improvement of the harbor here.

LEVEES.—Pine Bluffs, Ark.—Committee, Leo. M. Andrews, member, has been appointed to draw up plans for rebuilding Frenchtown and other levees.

WHARF ENLARGEMENT.—Augusta, Ga.—J. H. McKenzie & Sons were low bidders July 14 for enlarging city wharfs; improvements will cost about $10,000.

CUT STONE.—Chicago, Ill.—Bids are asked until Aug. 4 for cut stone (granite or Bedford stone) for 39th St. Pumping Station. F. W. Blocki, Comr. Pub. Wks.

DITCH.—La Porte, Ind.—La Porte Land Co. has brought legal proceedings to secure construction of drainage ditch through East La Porte. Est. cost is about $10,000.

CONCENTRATING PLANT.—Morenci, Ariz.—Preparations are reported being made by the Detroit Copper Co. for doubling its concentrating plant. Cost, $300,000.

DAM, ETC.—Greenfield, Mass.—Contract for new dam, road and culvert at the Glen is stated to have been let to Daniel O'Connel's Sons, Holyoke, Mass., for $48,800.

DIKE.—Topeka, Kan.—John P. Rodgers, County Surv., has prepared plans for dike system for protection of North Topeka from floods; est. cost is about $22,500.

SEA WALL.—Galveston, Tex.—Bids are asked until Aug. 24 for construction of sea wall at this place. Capt. Edgar Jadwin, U. S. Engrs. (Advertised, Engineering News.)

DAM.—Logansport, Ind.—Plans and specifications are reported under way for wood and concrete dam to be built in Eel River below 10th St. Walter A. Osmer is Cy. Engr.

PIER.—New York, N. Y.—Bankers' Land Corporation, 887 Manhattan Ave., Brooklyn, N. Y., is stated to have had plans prepared for new private pier at East Elmhurst.

ELECTRIC WIRES.—Newcastle, Pa.—The city has appointed a special committee to arrange for placing all overhead electric telephone and telegraph wires underground.

GRAIN ELEVATOR.—Chicago, Ill.—The Baltimore & Ohio grain elevator at 87th St. and Ontario Ave., South Chicago, is reported to have been destroyed by fire with $350,000 loss.

GUN FORGINGS.—Washington, D. C.—Chief of Bureau of Ordnance has awarded equal contracts for about $1,000,000 worth of gun forgings to the Bethlehem and Midvale Companies.

SUBWAY.—Rochester, N. Y.—Market Commission has directed Edwin A. Fisher, Cy. Engr., to make negotiations for subway to Union St. and New York Central Ry. crossing. Cost, $80,000.

GRAIN ELEVATOR AND WAREHOUSE.—Nashville, Tenn.—Capitol Grain Co., recently organized here, will erect a warehouse and elevator of a capacity of 250,000 bushels in West Nashville.

SHORE PROTECTION.—Richmond, Va.—Specifications for constructing shore protection of Jamestown Island, Va., are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 15, as advertised in Engineering News.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

ELEVATOR.—Port Colborne, Ont.—James Jamieson, of Montreal, is said to have been commissioned by the Dominion Government to prepare plans for a steel elevator at this place to cost about $1,250,000.

DISAPPEARING GUN CARRIAGES.—Akron, O.—Wellman-Seaver-Morgan Co. has secured contract totaling about $250,000 from the U. S. Government for the manufacture of disappearing gun carriages.

DAM.—Penacook, N. H.—Lhoyd & Mann, Engrs., Concord, N. H., have made surveys, plans and estimates for a proposed rubble-concrete dam to replace the present timber structure at Contorcork River Park, Penacook, N. H.

DAM.—Dayton, O.—The damming of the Miami River is under consideration by the city authorities. The City Engineer will make a survey of the land adjacent to the river with a view of constructing the dam.

COAL HANDLING PLANT.—Fort William, Ont.—Pittsburg Coal Co. has selected site and proposes to erect coal handling plant with storage room for 1,000,000 tons. Project calls for construction of large bridge.

DAM.—Nailey, Idaho.—Major Reed, Mgr. of the Revis placer claims in the Little Smoky District, will erect a dam across the Little Smoky that will store 1,000,000 gallons of water, it is reported in a local paper.

BREAKWATER.—London, Ont.—City Engineer Graydon has completed estimate of cost of cement wall for breakwater for West London, from Oxford St. bridge to Saunby's dam, cost of which is set at about $35,000.

DREDGING.—Washington, D. C.—Atlantic, Gulf & Pacific Co. has secured government contract for 350,000 cu. yds. dredging in the Virginia channel of the Potomac at Washington. Contract amounts to $48,650.

STEAM LAUNCH.—Ashtabula, O.—H. E. Smith, of Ashtabula Harbor, O., writes us that he is planning to design a steam launch 35 ft. long, and also to build the same, and he wants data regarding such work.

GRADE CROSSINGS.—Austin, Tex.—State Railroad Commission has ordered grade crossings with interlocking guards at Beaumont and Sour Lake where the B. S. L. & W. R. R. crosses the tracks of the T. & N. O. R. R.

WRECK REMOVAL.—Boston, Mass.—Specifications for removing wreck from Boston Harbor are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 12, as advertised in Engineering News.

RIVER WIDENING.—Grand Rapids, Mich.—Board Public Works has adopted report of expert engineer, recommending widening of Grand River to 600 ft., to do away with danger of high water. L. W. Anderson is Cy. Engr.

CONDUIT MATERIAL.—Baltimore, Md.—Bids are asked by Board Awards until Aug. 10 for about 1,000,000 duct ft. of conduit material, and 200,000 duct ft. of special duct pipe, for use of Electrical Commission. Chas. E. Phelps, Jr., Ch. Engr. (Advertised, Engineering News.)

TUNNEL.—Scranton, Pa.—Lackawanna Tunnel Co. has been chartered with $100,000 capital, to construct tunnel from near Locust St. to point near Front St. and Crown Ave. It will be used for the Laurel line. Louis B. Banks and Stacy B. Lloyd, of Philadelphia, Pa., are interested.

GUIDE CRIBS.—Wheeling, W. Va.—Bids were opened July 11 by Major Geo. A. Zinn, U. S. Engrs., for building guide cribs at Locks 2, 3 and 11, Kanawha River. R. B. Cassady & W. H. Hanna, Charleston, W. Va., were low bidders for entire work at $30,665.

WRECK REMOVAL.—Wilmington, Del.—Specifications for removal of wreck of barge lying at entrance to Little Egg Harbor, N. J., are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 20, as advertised in Engineering News.

AIR SHAFTS.—Altoona, Pa.—It is reported that the Pennsylvania R. R. will have six or eight air shafts bored from the top of the mountain to reduce the temperature in the new Gallitzin Tunnel. High speed electric motors will be installed to force air through the shafts. W. H. Brown, Philadelphia, Pa., is Ch. Engr., P. R. R.

STEAMBOATS.—Beaufort, N. C.—A charter has been granted to the Beaufort, Morehead and Ocracoke Co., for the purpose of operating a steamboat line between the points mentioned. Capital, $50,000. Incorporators are J. B. Jones, Nelson B. Taylor, Thomas Duncan and Thos. J. B. Watts.

DREDGING.—Paterson, N. J.—A movement is on foot to dredge the Passaic River within the city limits. Members of the Paterson Taxpayers' Association, who are interested in the success of the project have conferred with the Chapman-Merritt Dredging and Wrecking Co., relative to estimated cost of work.

AIR POWER PLANT.—New York, N. Y.—O'Rourke Engineering & Construction Co., which has the contract for building the Pennsylvania tunnel under the Hudson River, is stated to have awarded the contract for two central compressed air power plants, one on either side of the river, to the Ingersoll-Sergeant Drill Co.

STEAMBOAT.—New Orleans, La.—C. H. Merry, St. Louis, Mo., is organizing a company with a capital of $2,000,000 to run a line of boats from St. Louis to New Orleans. Plans have been drawn for a boat to be 500 ft. long, with 17 ft. depth of hold, and to carry 3,000 passengers. It is to have capacity of 10,000 tons, and will draw not over 8 ft.

WIRE NETTING.—Washington, D. C.—The Isthmian Canal Commission, according to reports, is to advertise soon for bids for 100,000 yds. of wire netting, with which to screen various buildings in the Panama Canal zone. Governor-General Davis has recommended the use of steel wire screens, not coarser than 17 meshes to the square inch, galvanized.

BOLTS.—New York, N. Y.—Cambria Steel Co. is stated to have been awarded a contract by the Pennsylvania R. R. aggregating $320,000, for supplying 8,000 tons of bolts to be used in constructing tunnels in this city. The above company is also reported to have secured contract for constructing the caisson, requiring 1,500 tons of steel, for the Pennsylvania tunnel under the East River.

CANAL SYSTEM.—Gridley, Cal.—The Butte County Canal Co. has secured from the Supervisors a franchise permitting them to cross the public roads in Butte county. Work on the canal will begin at once. M. N. Sheldon, of San Francisco, is the Acting Secy. of the corporation, and will take personal charge of the work. Contracts for the construction of the canal have been let to the E. B. & A. L. Stone Co., of Oakland.

CANAL, BRIDGES, WATER GATE, PIER.—Port Huron, Mich.—Bids are asked until Aug. 15 for material and labor for uncompleted portion of canal from Lake Huron to Black River. Work includes about 300,000 yds. excavating, double track railroad bridge, one highway bridge (iron on the ground), water gate at lake end, and 100 ft. of protection pier. R. D. O'Keefe, Supt. Pub. Wks. (Advertised, Engineering News.)

DRAINAGE CANALS.—New Orleans, La.—Sewerage and Water Board of New Orleans opened bids July 7 for construction of four drainage canals. Dowdle & Windett, Hennen Bldg., New Orleans, were successful bidders for Contracts U and Z at $92,650 and $92,370, respectively, and Thomas Egan, 757 Magnolia St., New Orleans, at $30,335, was successful bidder for Contract 27. All bids for Contract Y were considered too high, and were rejected, and new bids will be taken. For this work Irwin Bros., at $252,880, were low bidders.

DAMS AND SHORE PROTECTION.—Rock Island, Ill.—Following bids were recommended for acceptance by Major Jas. L. Lusk, U. S. Engrs., for construction and repair of dams and shore protection on the upper Mississippi River; bids received July 13: Fetter & Crosby, La Crosse, Wis., Sections Rock Island to Burlington and Hannibal to Hamburg, total amount available, $70,000; A. B. Teasdale, Cassville, Wis., Section Belleville to Le Claire, $35,000 available; Albert Kirchner, Fountain City, Wis., Section Burlington to Hannibal, $35,000 available.

DREDGING, ETC.—Ottawa, Ont.—Some of the supplementary estimates for Dominion Government work for the current fiscal year are as follows: Dredging at Point Edward, $5,000; harbor improvement at Collingwood, $6,050; dredging at Depot Harbor, $11,200; repairs to dredge "J. I. Tarte," $65,000; repairs to Soulanges Canal, $62,000; raising shed No. 1, St. Gabriel Basin, $10,000; repairs to old locks 1 and 2, Lachine Canal, $25,000; lock gates, $30,000; repairs and construction; St. Ours lock, $6,500; Quebec canals, $15,000; Cornwall canal, $9,700; Trent canal, $12,000.

HARBOR IMPROVEMENTS.—Washington, D. C.—Acting Secretary Oliver, of the War Department, has approved changes in the harbor lines of the Anacostia River from its junction with the Potomac River to the Pennsylvania Ave. bridge, to meet projected improvements at the Washington Navy Yard and on both sides of the river near Anacostia. It includes an extension of the lines up to the Benning bridge. There is also included a slight modification of the harbor lines on the west side of the Washington barracks reservation for the better connection between the established lines on the Washington channel of the Potomac River and the proposed lines for the Anacostia River.

DRAINAGE CHANNEL.—Chicago, Ill.—We are informed that the Board of Trustees of the Sanitary District of Chicago have adopted ordinance establishing right of way for new North Shore Channel, extending from present north end of the new channel, for the north branch of Chicago River (now under construction). The new channel will extend from Lawrence Ave. to Lake Michigan, about the northern limits of Evanston. The surveys were completed early this spring, and estimates will soon be completed. A pumping station will be erected near the lake end in order to produce a flow of lake water southward. This channel will complete the North Shore Channel, and will divert to the drainage canal all sewage now flowing into the lake and at times endangering the Chicago water supply. The right of way will probably be about 200 ft. wide, and it seems to be the intention of residents of the North Shore suburbs to obtain the right to construct a boulevard along each side of the proposed channel and terminate both in a park on the lake shore. The exact size of the channel will be decided on when the estimates are completed, but an idea of the cost may be obtained from a preliminary estimate made by the "Expert Commission of 1901," which is as follows: Right of way, $1,035,000; excavation, $987,000; bridges, $180,000; lake entrance, $75,000; pumping station, etc., $150,000; total, $2,427,000.

MINING

MINING MILL.—Las Vegas, N. Mex.—The Elliott Copper Co has been making a test run, and, if satisfactory, a mill will be erected.

MINING HOIST.—Park City, Utah.—Ontario Hoist No. 3 was destroyed by fire recently. Loss, $750,000. Mr. Rood is Mgr. of the property.

MINING.—Phoenix, B. C.—Extensive improvements to the Granby Co.'s mining equipment will be arranged for at an expenditure of between $75,000 and $100,000, this year.

CONCENTRATING PLANT.—Douglas, Ariz.—Local reports state that it is understood that a concentrating plant will be erected at the old Swansie Mine in Bocoachi.

MILLING PLANT.—Las Vegas, N. Mex.—Blake Mining, Milling & Investment Co., has purchased the milling machinery of Joseph L. Matt, which with some additions in the form of steam capacity, leaching and settling tanks, can be made into a 50-ton plant.

COAL COMPANY.—Bristol, Va.—The Black Mountain Coal Land Co., Inc., with offices in Bristol, Va., has been chartered. Capital stock, $1,500,000. The objects of the concern are to acquire mineral lands within this State and to mine and quarry coal, iron, ore, marble, and to produce gas, oil, etc. President, James J. Gordon, Washington, D. C.; Vice-Pres., W. B. Emmett, Bristol, Tenn.; Secretary and Treasurer, N. D. Buchanan, Jr., Bristol, Tenn.

U. S. POSSESSIONS AND CUBA.

BRIDGE SUPERSTRUCTURE.—Manila, P. I.—Bids are asked until Dec. 1 for construction of superstructure of bridge over the Pasig River, City of Manila. Jno. M. Tuther, Secy. Municipal Board. (Advertised, Engineering News.)

WHARVES.—Cuba.—Bids are asked by Bureau Supplies and Accounts, Navy Department, Washington, D. C., until Aug. 16 for construction of two timber wharves at Lower Toro Cay and at Fisherman Point, at U. S. Naval Station.

MEXICO.

RAILWAYS.

CITY OF MEXICO.—The National Railroad Co. of Mexico will build a branch line 23 kilometers long from a point on its Matamoros division, which is now under construction, to the Cerralvo mining district.

DURANGO.—The Mexican International R. R. will build a branch line from San Pedro to El Oro, in this state. The proposed road will pass through a region that is rich in mineral resources.

JARAL.—Messrs. Gonzalez and Bermejillo, of Celaya and Salvatierra are promoting project for a loop railroad from Jaral to Salvatierra, State of Guanajuato.

MORELIA, MICHOACAN.—The Palmillas Ry. Co. will build an extension of its line through the state of Morelos.

OAXACA.—Compania de los Ferrocarriles Urbano y Agricola, Oaxaca, has secured concession from Mexican Government to build and operate narrow gage railroad in the State of Oaxaca from Santa Anita, near the city of San Juan, Chapultepec, to Ayoguezco, district of Villa Alvarez.

SALTILLO, COAHUILA.—The Compania Minera, of this city, will build a railroad from its mines, near Mazapil, state of Zacatecas, to the station of Bonanza, on the Coahuila & Pacific R. R.

STREET AND ELECTRIC RAILWAYS.

AGUAS CALIENTES.—E. P. Shaw, Boston, Mass., is stated to be promoting project for construction of 200 kilometer electric tramway, connecting this city and Guadalajara.

AUTLAN, JALISCO.—It is reported that it has been definitely decided to connect the Rosa Amarilla mines, in the Autlan district, Jalisco, with the port of Navidad by means of an electric railway; est. cost of which is $1,500,000. The power will be furnished by water from the Cusalapa and Santa Maria Rivers. It is said work will commence at once upon the conclusion of the surveys, which are now in progress. M. D. Watson, Chicago, Ill., is interested.

CITY OF MEXICO.—The Federal District Ry. Co. of this city has under consideration plans for the construction and operation of an electric belt line, passing through all of the principal suburbs of the city.

MONTEREY.—It is stated that Colonel Joseph A. Robertson, of Monterey, is meeting with good success in the formation of a syndicate of American capitalists to purchase and consolidate the two street railway systems of Monterey and convert them into electric lines.

MORELIA, MICHOACAN.—Rothschild syndicate which has established electric power plant at its Inguaran copper mines, is said also to contemplate the construction of an electric railway from the mines to a point on the National Railroad of Mexico.

ORIZABA, VERA CRUZ.—Residents of Orizaba contemplate the construction of a railway connecting the city with outlying towns. The project has been submitted to the state government for approval, and either animal or electric traction can be used.

SALTILLO.—A survey is being made for a proposed tramroad that is to be built from Bonanza Station, on the Coahuila & Zacatecas Railroad to the Nazareno mine, 8 kilometers.

LIGHT AND POWER PLANTS.

CITY OF MEXICO.—Enrique Silva, Penjamo, Guanajuato, has applied for a concession to utilize 4,000 liters of water per second from the River Angulo or Zacapu, in the state of Michoacan, and district of Puruandiro, for generating motive power.

Miguel M. Navarro has obtained a concession under date of July 1 to utilize 3,000 liters of water per second from the river Los Molinos or Nexapa, in the districts of Atlixco and Cholula, in the state of Puebla, to generate electric power.

Dr. Carlos Fenelon and Dr. B. W. Wallace and associates, recent purchasers of the Barranca del Oro, south of Ixtlan, Territory of Tepic, are preparing to install an electric power plant and electric tramways to connect mine and mill.

LA BRISCA.—An electric light and power plant will soon be installed at La Brisca, in the Magdalena district, Sonora. The power obtained will be used to run the machinery of the mining company which operates there.

SANTIAGO IXQUINTLA, TEPIC.—An electric light plant is to be installed here.

TLALNEPANTLA, MEXICO.—Gonzalo A. and Octavo L. Velasco have applied for concession to divert 3,000 liters of water per second from the Santa Ana River, in the Tlalnepantla district, for motive power to be used on their hacienda known as de Bata, situated in the municipality of Santiago Tlazala.

BUILDINGS.

CITY OF MEXICO.—It is proposed to establish a large pleasure resort at San Angel, a suburb of this city, a feature of which will be a large hotel of 250 rooms, built on American lines, and to be one of the most expensive and best equipped in Mexico. Leon Signoret, of the Puerto de Vera Cruz, City of Mexico, is at the head of the enterprise, and is to visit the United States to consult with architects in regard to the plans, etc.

Manuel Buch, of this city, according to reports, is to build a 5-story, 200-room hotel building at a cost of $450,000. W. W. Warneke, City of Mexico, has drawn up plans.

SALTILLO, COAHUILA.—It is stated that Ricardo de la Vega, of Torreon, will erect a theater building here.

TORREON.—The Instituto Santiago Lavin, S. A., has been organized to establish an educational institution at Gomez Palacio. The proposed buildings will cost about $40,000. Jose Calvez, of Gomez Palacio, state of Durango, can give information.

WATER-WORKS.

NUEVO LAREDO.—The Mexican government has made an appropriation of $750,000 for the construction of complete water-works and sewer systems for this city.

MANUFACTURING PLANTS.

CITY OF MEXICO.—Contract for construction of plant to be operated by Mexican Car & Foundry Co., Isaac M. Hutchinson, Pres., is stated to have been let to John Hopper of this city. It is stated that $75,000 will be spent for equipment, and that electrical energy will be largely utilized to drive the machinery and light the factory. Mr. Hutchison represents the interests of the Niles-Bement-Pond Co., 136 Liberty St., New York, in Mexico.

It is stated that the Tabasco Plantation Co., J. C. Fifield, Minneapolis, Minn., Secy., proposes to expend some $500,000 gold in the construction and equipment of a sugar factory on its property, located along the Coatzacoalcos River, Isthmus of Tehuantepec. The plant is to have capacity of 2,500 tons of cane per day.

CORDOBA, VERA CRUZ.—San Juan Sugar Corporation, owned by the Miller Plantation Co,. 349 W. 26th St., New York, is stated to have placed considerable contracts for equipment with Geo. P. Anderson, Consult. Engr., 120 Liberty St., New York. Contract for boiler of 1,200 HP. has been let to The Stirling Co., Chicago, Ill. Contract for sheet iron work was let to Logan & Sons, New Orleans, La., and John H. Murphy, New Orleans, La., has secured contract for vacuum pan, etc.; Birmingham Machine & Foundry Co. has also secured contract for its specialties.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

MISCELLANEOUS.

AUTLAN, JAL.—It is reported that W[illegible] Greene, Pres. Greene Consolidated Copper Co., of Ca[illegible], is heavily interested in the company which is pre[illegible]g to operate the Rosa Amarilla mine, in the Autlan [illegible]rict, state of Jalisco. A large amount of machinery, [illegible] stated, will be installed, and a standard gage railro[illegible]structed to the port of Navidad, on the Pacific coa[illegible] road estimated to cost $1,500,000. Reduction w[illegible]will also be constructed.

CHIHUAHUA.—The Chicago-Mexican [illegible] Co. has been organized in Chicago, Ill., to oper[illegible]he Chicago mine, formerly known as the Refugio, l[illegible]d about 40 miles west of Cusihuiriachic, in the state [illegible]Chihuahua. The company will erect buildings and pur[illegible] machinery to operate the mine on a large scale. Dr[illegible]H. Reed is Pres., and J. B. Myers, Secy. and Mgr. [illegible] McDonald is Supt. at the mines.

CITY OF MEXICO.—A syndicate of Uta[illegible]n, among whom are J. C. Sharp, Salt Lake City, a[illegible]dam Patterson, Ogden, propose to purchase and far[illegible],000 acres of land in Southern Mexico.

James W. Malcolmson, Mining Engineer, [illegible]Paso, Tex., has submitted a report to Governor Terraz[illegible]f Chihuahua on the various mining camps and feasib[illegible] of establishing an independent smelter.

It is reported that J. F. Barringer, Chic[illegible] Ill., will apply again for a concession for the establi[illegible]ent of an automatic telephone exchange.

The frequent floods in the district surrounding this city has caused the city authorities and the government of the federal district to appoint Carlos Bo[illegible]atta engineer to study and present a project for the construction of a system of dykes, and to present a plan for the work as soon as possible.

CITY OF MEXICO.—John T. Judd, a mining engineer of this city, has closed a deal for sale of three gold and silver mines to a rich syndicate of Boston and Salt Lake City, represented by J. A. Coram, of Boston. They will put up a concentrator of 100 tons.

ETZATLAN, JALISCO.—A gold and silver-bearing vein, situated on the Santo Mountain, near here, has been acquired by Nabor Molina and Albino Garcia, and they will install machinery and develop the property. George L. Cumine is Engr.

FUENTE, COAHUILA.—The Fuente Coal Co. has acquired additional coal lands near here, which it will develop. Other coal companies which are operating in this part of Mexico are the Mexican Coal & Coke Co., at Esperanzas; the Coahuila Coal Co., at Hondo, and the Monterey Iron & Steel Company, which is working coalfields at Felipe. All of these companies have recently increased their coal land holdings, and are preparing to extend their operations.

JALISCO.—Five stamps are to be added to the mill at the Lupita mine, situated west of Ameca, state of Jalisco. The headquarters of the company are at Colorado Springs, Colo. Patrick Fitzgerald is Supt. at the mine.

MASCOTA, JALISCO.—Mascota Mining Co. is to put up a 100-ton smelter north of Mascota, Jalisco.

MAZATLAN, SINALOA.—The navy department is to construct a new light house at Mazatlan.

SAHUARIPA, SONORA.—Cieneguita Copper Co., which owns mines in the Sahuaripa district, about 100 miles east of Minas Prietas, is to erect two smelters of a daily capacity of 100 tons each, and to increase the number as required. G. D. Beebe, Chicago, Ill., is Pres.

SAN LUIS POTOSI.—Col. E. A. Willard, of this city, who owns a tract of 125,000 acres of timber land in the state of Durango, will develop the property as soon as the extension of the Mexican International Railroad is completed to it.

SANTA EULALIA, CHIHUAHUA.—It is stated that the American Smelting & Refining Co. will erect a concentrating plant near the San Antonio mine.

SANTA RAMONA, CHIHUAHUA.—D. J. Knotts will erect a cyanide plant and a 5-stamp mill at his mine at this place.

SOMBRERETE, ZAC.—B. Clarke Wheeler, who has a lease and bond on the La Noria and San Bartolo mines, located about 12 miles from Sombrerete, in the state of Zacatecas, is about to erect a small cyanide plant to treat the ores extracted from the mine, and if the results warrant it a large plant will be built.

SONORA.—Yaqui Copper Co. is to construct a smelter, the initial capacity to be 500 tons daily, at its property at Campo Santo Nino, State of Sonora. It is proposed ultimately to increase the capacity of the plant until it reaches 5,000 tons per day. It is also proposed to construct extensive reservoirs to impound water, the lack of which has necessitated the suspension of operations at times. The construction of a railway from the mines to Prietes is under consideration, but it is not decided whether the company will build the line or the Nacozari Railway Company extend its line to the mine. Henry Ide Willey is Chief Engineer, 99 John St., New York.

TULA, JALISCO.—Ralph H. Beach, New York, formerly connected with the General Electric Co., and George Townsend, Indianapolis, Ind., have leased the iron mines, mills and foundry at Ferreria de Tula, State of Jalisco, and are preparing to build up one of the largest manufacturing enterprises in the republic.

It is proposed to increase the capacity of the plant to 50 tons daily, and is also proposed to establish a steel plant, as one of the deposits is hematite ore suitable for the manufacture of steel. J. E. Jones, Mgr. the Phoenix Roller Mills of Pittsburg, Pa., has been engaged as General Manager of this Mexican industry.

ZACATECAS.—The Mesquital Gold Mines, Ltd., has incorporated, with a capital stock of $100,000 to acquire and develop gold-mining properties in Zacatecas. The incorporators named are A. G. Kirselton, No. 1 Cossall St., Queen's road, Peckham, S. E.; G. H. Allen, 71 Fairbridge road, Upper Holloway; W. MacLachlan, 65 Londonwall, E. C., all of London, England.

ZACATLAN, PUEBLA.—Application has been made by Manuel Pardo, an engineer, for a concession to divert 10,000 liters of water per second from the San Miguel River, in the district of Zacatlan, State of Puebla.

FOREIGN CONTRACTS—EXPORT NEWS.

HARBOR WORK.—Italy.—Plans are now being made to improve the harbor works of the cities of Brindisi and Reggio, Italy.

HARBOR WORKS.—Argentina.—New harbor works are to be constructed at Rosario, Argentina, at an est. cost of $11,600,000 in gold.

ELECTRIC RAILWAY.—Argentina.—The introduction of electric traction on the Tranvia Rural, city of Buenos Ayres, is contemplated.

WATER-WORKS.—South Africa.—The city of Cape Town, South Africa, is about to extend its water-works at a cost of $10,000,000.

PAPER MILL.—Hungary.—The "Erste Ungarische Papierindustrie," A. G., Budapest, will enlarge its paper mill and purchase new machinery.

CANAL.—Russia.—The municipality of St. Petersburg is preparing to build a canal to connect Neva River with Lake Onega and the White Sea.

FLOATING DOCKS.—France.—New floating docks are to be erected at Bordeaux, France; for particulars apply to the Chamber of Commerce of that city.

RAILWAY.—British East Indies.—A new railway line, 38 miles long, is to be built from Warora to Belapur, British East Indies, at an est. cost of about $1,000,000.

HARBOR IMPROVEMENTS.—Brazil.—Harbor improvements, to include new docks, storage sheds, bridge, electric cranes, etc., are to be made at Victoria, State of Espirito Santo, Brazil.

RAILWAY EXTENSION.—Brazil.—The government of the State of Rio Grande do Sul (Brazil) is negotiating for a loan of $346,000 to be expended in extending and improving railroad lines.

WATER-WORKS.—Italy.—Italian Government contemplates construction of extensive water-works in the Provinces of Foggia, Bari and Lecce, at an estimated expenditure of nearly $25,000,000.

RAILROAD.—Sirnach, Switzerland.—A railroad is to be built from Constance via Weinfelden to Wil. Details may be had of the "Initiatiy Committee der Thurgauer Bahn" (address "Gerichts präsidenten von Streng) in Sirnach, Canton Thurgau.

RAILROAD.—Panama.—H. L. Connell, Pres., American Banana Co., Mobile, Ala., is stated to have let a contract to S. H. Keoughan, Beaumont, Tex., for the construction of a line of railroad from Pocas Del Toro, Panama, to the banana plantations.

WELL BORING PLANTS.—South Africa.—Africa Water Boring & Mineral Research Co., Ltd., recently organized with $2,500,000 capital, to bore for water and for mineral exploration, proposes, it is stated, to purchase about 100 modern boring plants of various sizes and patterns. Harold Wood & Co., Savings Bank Bldgs., Cape Town, is Secy.

ELECTRIC RAILROADS.—Australia.—New South Wales and Victoria, Australia, contemplate the substitution of electric for steam power on their railroads. They will initiate this change on some of the suburban lines before extending it to the trunk lines. The railroad line from Milsons Point to Hornsby will be the first on which the change to electric traction will be made.

MANUFACTURING PLANT.—Italy.—The municipality of Ascoli Piceno, Italy, offers a premium of $50,000 to a new industrial enterprise locating in the town which will afford daily employment to 150 persons during the first two years, to 200 persons during the next two years, and to 300 persons thereafter. Offers must be handed by August 31, 1904, to the "Direzione della Cassa di Rispanio," Ascoli Piçeno, Italy.

SUGAR FACTORY.—South Africa.—The Minister of Agriculture at Pietermaritzburg, Natal, South Africa, will receive proposals for the building and operating of a sugar factory with a producing capacity of 15,000 tons of sugar in a season, and for a track to connect this factory with the Natal Railway. The factory is to be located at Amatikulu, Zululand, Natal, South Africa.

ASPHALT MINES.—Venezuela.—E. H. Plumacher, U. S. Consul at Maracaibo, reports that the Venezuelan Government has granted Andres Espina the right to exploit four asphalt mines, three in the district of Perija and one in the district of Maracaibo. The Government is to receive 25 per cent. of the net proceeds and the contract is to run for 25 years from the day that a certain railroad is built, but nothing about the railroad contract has been published.

PIPE, PUMPING STATIONS, ETC.—Crajova, Roumania.—The City Council will receive bids until Aug. 22 for the following materials: 39,600 lin. meters iron pipe, 80 to 150 millimeters diameter; 25,100 lin. meters iron pipe, 200 to 400 millimeters diameter; 27,900 lin. meters iron pipe, 500 millimeters diameter; hydrants, sewer caps, etc. Delivery and erection of two pumping stations, with respectively 3,000 and 4,000 cubic meters capacity per 24 hours, together with pipe systems, etc. Conditions in French language (price, 10 francs) to be had of the City Council of Crajova.

ELECTRIC POWER.—St. Etienne, France.—It is reported that application has been made to the French Legislature for authority to develop the water power of a lake 1½ miles wide, situated on a high point in the Department of the Ardeche, for the purpose of generating electric power for lighting St. Etienne and all the principal towns in the Department of the Loire This scheme is in addition to the electricity supply project of the municipal authorities of St. Etienne, and is promoted by M. Mallet, of St. Etienne. It is anticipated that 20,000 HP. will be available.

RAILROAD.—Bolivia.—It is announced that a contract has been closed between Senor Ignacio Calderon, of Bolivia, and the Creusote Works of France for the building of railroads in Bolivia. Part of the expense is to be borne by Bolivia with the $10,000,000 recently received from Brazil at the settlement of the Acre boundary dispute, and the balance—about $25,000,000—will be looked after by the Creusotes. It is now proposed to build a railroad from La Paz to Oruro connecting that city with the present railroad system going down to the Pacific. Branch lines will also be built from Uyuni to Potosi, one of the richest mineral regions of the globe, and to Tupiza, to connect with the Argentine system. The system would be about 500 miles long, and the cost is estimated at about $25,000 per mile.

GERMANY.

FOUNDRY.—Penzig, O. L.—Melhose, Keppler & Co. intend to erect a foundry at their works.

AMMONIA WORKS.—Herne in W.—The "Gewerkschaft Constantin der Grosse" will build an ammonia works this year.

BRIDGE.—Mannheim.—The city is contemplating the construction of a bridge over the Neckar River, to cost about $768,000.

BRIQUETTE PLANT.—Schwandorf.—A new company, of which J. Galler is manager, will erect a large briquetting plant near Klärsdorf.

ELECTRIC LIGHT AND POWER PLANT.—Burg, bei Magdeburg.—The City Council has decided to erect an electric light and power plant.

ZINC SULPHATE WORKS.—Langelsheim i Braunschweig.—The Chemische fabrik Innerstetal of this place will build a zinc sulphate works.

ELECTRIC PLANT, BRIQUETTE FACTORY.—Görlitz.—The Braunkohlenbergweck "Stadt Görlitz' will build an electric light and power plant, with boiler plant, and also a briquetting factory.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

CEMENT.—Winchester, Ind.—J. F. Moorman, of Winchester, writes us that he wants to purchase 2,000 bbls. of cement.

HYDRAULIC LIFTS.—Duluth, Minn.—"The Duluth Evening Herald," A. J. Frantz, Treas., writes us that it wants addresses of makers of hydraulic lifts.

COAL CHUTES AND ROOFING.—Salt Lake City, Utah.—B. O. Curtis, of Salt Lake City, writes us that he wants the addresses of firms making coal chutes, and also of firms making roofing for large buildings.

MIXERS FOR SAND, LIME AND CEMENT.—New York, N. Y.—The Peerless Brick Co., 541 East 118th St., writes us that it wants names of firms making machinery, mixers or automatic weighing devices for proportioning materials such as sand, lime, cement, etc.

ASBESTOS MACHINERY.—Denver, Colo.—The Colorado Asbestos Co., 246 Equitable Bldg., Denver, writes us that it intends to start a factory for the manufacture of asbestos, and it wishes to secure information regarding such products, as well as information of machinery for the same.

CEMENT, CONVEYORS, ELECTRICAL SUPPLIES, EXPLOSIVES (carload), HOISTING ENGINES, PNEUMATIC TOOLS, RAILS (20 and 30-lb. for mines).—Hedley, B. C., Can.—M. K. Rodgers, Mgr. Daly Reduction Co., Ltd., of Hedley, writes us that the company is in the market for the above-mentioned materials.

SAWS FOR CUTTING PILES.—Washington, D. C.—J. M. Bowyer, Commander, U. S. N., Head Dept. Yards and Docks, Washington Navy Yard, writes us that he wishes to receive the names and addresses of manufacturers of saws for cutting off piles under water.

ARTIFICIAL STONE.—South Africa.—Cadenas & Coe, South African Dept., 116 Broad St., New York, write us for the names of firms who make artificial stone by the magnesia process. Particulars are wanted regarding the machinery for grinding, sifting, mixing, shaping and pressing, as well as by hydraulic presses, for making paving stones and tiles.

CENTRAL HEATING PLANT AND ENGINEERS.—Grinnell, Ia.—H. W. Spaulding, of this place, writes that he is on a committee to establish a central heating plant at Iowa College, which has eight large buildings, and he wishes to correspond with heating engineers to prepare plans for the plant. It is undecided whether steam or hot water will be used, and information regarding both systems are wanted at once.

CONCRETE MIXERS, ROAD ROLLERS, PAVING BRICK, HOISTING ENGINES, DREDGES, DITCHING MACHINES, EXPANDED METAL, WIRE ROPE, CEMENT STONE MACHINE, FLUSH TANK APPARATUS, SAND PUMPS, MANHOLE COVERS, TRENCH BRACES, SEWER PIPE.—Wichita, Kan.—W. C. Edwards & Son, Contractors on the K. Cy., Mex. & O. Ry., write us that they are in the market for the above-mentioned supplies. W. C. Edwards, Jr., Engr.

FOREIGN CONTRACTS—Continued.

ELECTRIC PLANT.—Dingolfing, Bayeru.—The city will erect an electric light and power plant.

FACTORY.—Fallersleben.—The "Kaligewerkschaft Einigkeet" has received the concession to build a potassium chlorate factory at their works.

ACID WORKS.—Freiberg i. Sa.—The "Dresdner Dynamitfabrik" intends to build a sulphuric acid works at Hilbersdorf.

PUBLIC BATHS.—Leipzig.—The local branch of the Deutsche Verein für Volkshygiene will build public baths here, the estimated cost of which amounts to about $550,000.

ELECTRIC PLANT.—Schramberg.—The "Hamburg-Amerikanische Uhrenfabrik" will install a large electric plant in Bernecktal in the near future for furnishing power for their works in Göttelbachtal.

ARGENTINA.

ELECTRIC POWER HOUSE.—La Plata.—La Plata Gas Co. has petitioned the Provincial Government asking for authorization to establish an electric power house.

RAILROAD.—Buenos Ayres.—According to reports from this city, the contract for the construction of the Chilian section of the Transandine Ry. has been let to the Transandine Railway Construction Co.

RAILROAD.—Buenos Ayres.—Contract has been approved by the Government for the construction by the French Railway Co., of Santa Fe, of a line from La Sabana station to Port Barranqueras, on the River Parana.

MACHINERY.—Algarrobo.—J. Couste, of Lamadrid, is about to start a new colony at Algarrobo. He has secured some 2,500 hectareas of land, and will invest over $100,000 in agricultural implements and machinery for the colonists.

BRIDGE.—Buenos Ayres.—President of the Republic has approved the construction of an iron bridge over the Rio Diamante, Provincea de Mendoza. Estimated cost, $459,828. The Direccion General de Vias de Comunicacion in Buenos Ayres has been empowered to award the iron and steel construction.

PAVING, RAIN-WATER CONDUITS.—Buenos Ayres.—The Minister of Finance has passed to the Minister of Public Works the note of the Director of the Port Movement Office, recommending the construction in the port of pavement and rain-water conduits, at an estimated cost of $3,000,000 national money.

HORSE TRAMWAY.—Buenos Ayres.—The Municipal Commission has given permission to Senor Victorio Rissotto to construct a double-line horse tramway from the corner of Calles Urquiza and Caseros, along the latter street to Saenz, and along that street to Puente Alsina, returning by the same route. The line will be double. The tramway may carry cargoes as well as passengers.

WHARVES, CRANES, ETC.—Buenos Ayres.—The Executive has approved plans and estimates for works of the San Nicolas Port, including 1,700 meters of wharfs for ocean steamers. Within a year the company is to complete the estimates for nine cranes of 1½-ton power, for the electric lighting of the port and adjoining buildings, and for the sanitary and water services. The second section of the port is to be constructed immediately.

RAILROAD.—Buenos Ayres.—Telegrams from Mendoza state that the Argentine Great Western R. R. will shortly undertake the construction of 1,000 kilometers of line. The branch from San Rafael will be extended to Toay, 500 kilometers, where it will join with the Bahia Blanca & North Western. A line will also be built from Toay to Buena Esperanza, on the Pacific. The branch to Lujan is to be extended to San Carlos. Another branch will be from San Martin to the Department of Riradaria. The line to San Juan is also to be extended. The plans are being prepared, and will soon be presented to the Government. The cost of the work is estimated at about $12,500,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE COAL-HANDLING MACHINERY for the new plant at the New York Navy Yard, described in our last issue by Lieut. Jos. S. Shultz, was furnished by the Mead-Morrison Mfg. Co., who also built the high tower at the plant.

THE UNITED STATES DRYING ENG. CO., New York, has closed contracts for the installation of two large begasse dryers in Cuba, two dryers for the drying of clay, one large peat dryer, a plant for the drying and handling of infusorial earth, and have an export order for Australia for the drying of fertilizer products.

DODGE & DAY, Modernizing Engineers, Philadelphia, have just completed the installation of the 340 HP. Buckeye vertical, cross-compound engine, direct connected to two G. E. 100 KW. continuous-current, compound-wound generators for the Link-Belt Engineering Company. The same concern are at work on a three-motor, electrically-operated locomotive crane for this company, to handle beams, angle irons and other heavy structural material for use in their new storage yard.

KNAPP BROTHERS, of Chicago, representing the Kahn system of concrete steel reinforcement, report that they have recently closed the following contracts: Alhambra Theater, Chicago; Haymarket Theater, Chicago; Dairy Bldg., for the Ioka State College, Ames, Ia.; Carnegie Library, Sterling, Ill.; Oil House, Union Traction Co., Chicago; Manual Training School, La Grange, Ill.; Bridget Jackson Park, Ill.; Administration and hospital buildings for the Iowa School for the Deaf, Council Bluffs, Ia.; Werner Brothers' warehouse, Chicago.

CROCKER-WHEELER CO., of Ampere, N. J., announce under date of July 6, 1904, an important event in alternating-current matters, as follows:

"By arrangement with the celebrated electrical engineers, Brown, Boveri & Cie., of Baden, Switzerland, we have secured their alternating-current designs, patents and rights to manufacture in America, and have retained them as consulting engineers.

"We are now putting on the market alternating-current generators, transformers, and accessories of the most perfect design and construction, adapted to American practice. Opportunities to bid on this apparatus are invited."

They add to this announcement the information that they have already closed a contract for a 200 KW. 60-cycle 440-volt alternating-current generator for the Atlanta plant of the Proctor & Gamble Co., Cincinnati, and are figuring on an actively increasing number of alternating propositions.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*DREDGING.—Jacksonville, Fla.—Following bids were received at U. S. Engineer's office July 11 for dredging in St. Johns River:

Bidders.	Lower section, per cu. yd.	Upper section, per cu. yd.	Rock excav. per cu. yd.
Bowers Southern Dredging Co.	$0.105	$0.105	$5.50
Coastwise Dredging Co	.15	.15	4.50
Morris & Cummings Dredging Co.	.219	.25	2.90
Geo. W. Catt	.149	.129	10.00
P. Sanford Ross, Inc	.142	.143	4.50
Fox River Dredging & Reclamation Co	.145	.16	4.00
Roderick G. Ross	.195	.195	4.50
Maryland Dredging & Contracting Co.	.14	.14	4.50
North American Dredging Co.	.0823	.0789	9.00

*MACADAM.—Camden, N. J.—Bids as follows were received July 11 by the Stone Road Committee for macadamizing Clementon Road for a length of 7,400 ft. and to a width of 12 ft. Number of years guarantee is one; thickness wearing coat 4 ins.; 4-in. foundation of 2½-in. crushed stone; J. J. Albertson, County Engr., Magnolia, N. J.; contract awarded B. F. Sweeton & Son; (1) earth

excavation; (2) paving; (3) tile drain: B. M. & J. T. Shanley Co., 14 South Penn Square, Philadelphia, (1) 25c.; (2) $1.14; (3) 15c. B. F. Sweeton & Son, Camden, N. J., (1) 25c.; (2) $1; (3) 15c.

SEWERS.—Fremont, Mich.—The following bids were received July 5 for pipe sewers and accessories: Geo. S. Pierson, Engr., Kalamazoo; (1) J. K. Brower and H. Mould, Big Rapids; (2) Irving R. Pearl, Benton Harbor; (3) Peter De Witt, Grand Rapids; (4) B. F. Brucker, Saginaw; (5) C. H. Kaumeier, Port Huron; (6) Frost and Van Ness.

Bids received at Fremont, Mich., July 5, 1904, for Pipe Sewers and Accessories.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)
Pipe, 12-in.	2,040 ft.	$0.35	$0.425	$0.41	$0.34	$0.51	......
" 10-in.	2,829 ft.	.25	.3846	.32	.30	.39	......
" 8-in.	1,519 ft.	.18	.2598	.25	.24	.27	......
Excavation, 0 to 6 ft.	1,967 ft.	.30	.1312	.35	.23	.45	......
" 6 to 8 ft.	1,736 ft.	.30	.2362	.40	.40	.50	......
" 8 to 10 ft.	1,935 ft.	.40	.315	.42	.44	.60	......
" 10 to 12 ft.	550 ft.	.50	.3937	.45	.49	.80	......
" 12 to 14 ft.	250 ft.	.60	.63	.48	.54	1.00	......
Manholes	15	30.00	31.39	48.00	30.00	35.00	......
Lamp holes	5	5.00	5.00	10.00	5.00	8.00	......
Flush tanks	2	25.00	49.95	50.00	80.00	75.00	......
Iron pipe, per ton	3 tons	40.00	35.00	40.00	42.50	40.00	......
Drains, 4-in.	2,600 ft.	.08	.08	.05	.11	.18	......
" 5-in.	400 ft.	.09	.105	.07	.13	.20	......
" 6-in.	400 ft.	.10	.115	.08	.15	.21	......
Gravel, per yd.	50 yds.	1.75	2.00	1.75	2.00	1.00	......
Embankment, per yd.	638 yds.	.50	.35	......	.49	.50	......
Rock, per yd.	5 yds.	8.00	3.50	1.25	1.20	3.00	......
Septic tank	1	800.00	546.00	615.00	1,000.00	1,600.00	......
Totals		$6,150	$5,836	$6,549	$6,864	$9,559	$6,491

*BRICK PAVING.—Towson, Md.—Following bids were received by the Highway Commission, H. G. Shirley, Engr., July 14 for constructing vitrified brick pavement on 8-in. gravel foundation. Pavement is guaranteed for five years, and curb is to be of granite, 4½ × 20 ins.; street is to be paved for length of 2,100 ft., and for width of 36 ft. and 52 ft.; (1) Baltimore Contracting & Wrecking Co., Baltimore, Md.; (2) Arthur L. Shreve & Co., Baltimore, Md.; (3) Murdoch & Mullin, Philadelphia, Pa.; (4) J. S. Robertson, Baltimore, Md.; (5) Federal Engineering & Construction Co., Baltimore, Md.:

Bids received at Towson, Md., June 14, 1904, for Constructing Vitrified Brick Pavement on 8-in. Gravel Foundation.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Earth excavation	3,900 cu. yds	$0.30	$0.40	$0.35	$0.25	$0.40
Paving	11,704 sq. yds.	1.55	1.64	1.43	1.49 1.39	1.33
Gravel	11,704 "	.40	.24	.40	.40	.35
Curb	3,868 lin. ft.	.70	.85	1.11	.95	1.00
Circular curb	100 ft.	1.40	1.45	1.40	1.50	2.00
Protection curb	550 ft.	.40	.65	.80	.65	.80

*GUIDE CRIBS.—Wheeling, W. Va.—Bids were opened July 11 by Major Geo. A. Zinn, U. S. Engrs., for building guide cribs at Locks Nos. 2, 3 and 11, Kanawha River; R. B. Cassady and W. H. Hanna were low bidders, at $30,665 for the entire work. The itemized bids on all three sections of work are identical, so only those for Lock No. 2 are given; (1) Enterprise Contracting Co., Pittsburg, Pa.; (2) R. B. Cassady and W. H. Hanna, Charleston, W. Va.; (3) Jutte & Foley Co., Pittsburg, Pa.; (4) Baker & Egan, Pittsburg, Pa.:

Items.	Quantity.	(1)	(2)	(3)	(4)
Excavation	5,300 cu. yds.	.85	.65	.64	.50
Embankment	2,000 " "	.85	.50	.64	.50
Stone filling	2,500 " "	3.00	1.25	2.64	3.00
Timber	130,000 ft. B.M.	45.00	40.00	40.00	50.00
Driftbolts	8,800 lbs.	.04	.02½	.04	.05

*INTAKE PIPE.—Erie, Pa.—Bids were received by Water Commissioners, Geo. H. Fenkell, Engr., June 30 for furnishing and laying an intake pipe. Bids were received separately on three sections of the work; the bids given below, however, are for all three sections. T. A. Gillespie, Pittsburg, Pa., was the only bidder for both furnishing and laying 9,994 ft. of steel pipe, his bid being $18.57 per foot. For laying 9,994 ft. of steel pipe bids per foot were received as follows: T. A. Gillespie, $9.50; Lake Erie Dredging Co., Buffalo, N. Y., $9.85; McGovern Construction Co., Trenton, N. J., $12.25. The last two concerns were the only bidders for laying 9,994 ft. c. i. pipe, their bids being $10.40 and $13.00, respectively. For furnishing (A) 4,224 tons c. i. pipe and (B) 127 tons c. i. specials, bids were received as follows: U. S. Cast Iron Pipe & Foundry Co., Chicago, Ill. (A), $23.20; (B) $75; R. D. Wood & Co., Philadelphia, (A), $24.20; (B), $100. Bids per valve were received as follows for furnishing five gate valves: T. A. Gillespie, $1,010; R. D. Wood & Co., $1,450; C. W. Thomas, Detroit, Mich., $750; Eddy Valve Co., Waterford, N. Y., $1,000; Ludlow Valve Mfg. Co., Pittsburg, Pa., $1,025; Rensselaer Mfg. Co., Troy, N. Y., $1,040; Chapman Valve Co., Indian Orchard, Mass., $1,287; Coffin Valve Co., Boston, Mass., $1,450. For constructing about 490 cu. yds. riprap bids per yard were received as follows: Lake Erie Dredging Co., $2.50; McGovern Construction Co., $3.00; T. A. Gillespie, $3.50. Bids for furnishing (1) 9,994 ft. steel pipe, and (2) 81 sub joints were received from the following, the Toledo Boiler Works, Toledo, O., offering lump bid of $135,285 for the work: T. A. Gillespie, (1) $8.55, (2) $65.00; James McNeil & Bro. Co., Pittsburg, Pa., (1) $8.56, (2) $65.00; Carroll-Porter Boiler & Tank Co., Pittsburg, Pa., (1) $9.35, (2) $65.00; Girard Boiler & Mfg. Co., Girard, O., (1) $9.54, (2) $76.00; Reeves Bros. Co., Alliance, O., (1) $10.00, (2) $70.00; Riter-Conley Mfg. Co., Pittsburg, Pa., (1) $11.40, (2) $84.00; Hammond Iron Works, Warren, Pa., (1) $11.26; (2) $68.57.

DREDGING.—Jacksonville, Fla.—Following bids per cu. yd. were received at U. S. Engineer's office, July 16, for dredging in Withlacoochee River entrance; (1) rock excavation; (2) sand, mud, etc.; Alexander G. Bigelow, Rockwell, Fla., (1) $2.50; (2) 16 cts. Wm. H. Virden, Tampa, Fla., (1) $5.20; (2) 28 cts.

*DAMS AND SHORE PROTECTION.—Rock Isl Ill. —Following bids were received by Major Jas. L. k, U. S. Engrs., July 13 for construction and repair of ms and shore protection on the Upper Mississippi River he work is divided into four sections: (A) Bellevue Le Claire, (B) Rock Island to Burlington, (C) Burling to Hannibal, (D) Hannibal to Hamburg, and the ra of rock to brush for each of these sections is respe y 1:2, 1:1½, 1:1½ and 1:1:

Bidders.	Rock, per cu.yd.	Brush, per cu.yd.	Av per
Section (A).			
Fetter & Crosby	$1.36	$0.51	
A. B. Teasdale	1.24	.35	
Albert Kirchner	1.32	.50	
Truax & Martin	1.39	.55	
Section (B).			
Fetter & Crosby	1.42	.52	
Albert Kirchner	1.45	.58	
Section (C).			
Fetter & Crosby	1.38	.57	
Albert Kirchner	1.35	.53	
Jacob Richtman	1.45	.60	
Section (D).			
Fetter & Crosby	1.40	.55	
Albert Kirchner	1.45	.58	1.0
Jacob Richtman	1.50	.60	1.0

Bids of Fetter & Crosby, La Crosse, Wis., for Sectio (B) and (D) were recommended for acceptance, as w bids of A. B. Teasdale, Cassville, Wis., for Section (A and Albert Kirchner, Fountain City, Wis., for Section (C)

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

PNEUMATIC PAINTING MACHINES.—J. A. del Solar, 108 Fulton St., New York. 3½ × 6½ ins.; pp. 24.

The major portion of this catalogue illustrates and briefly describes pneumatic painting machines.

CRUSHED LIMESTONE.—Calvin Tomkins, 17 Battery Pl., New York. 4 × 9 ins.; pp. 14.

This pamphlet consists entirely of excerpts from the writings of different civil engineers, on the building of macadam roads.

SLOTTING MACHINES.—Newton Machine Tool Work Philadelphia, Pa. 6 × 9 ins.; pp. 24.

Illustrations, accompanied by brief descriptions of the different slotting machines made by this company, are given.

GAS AND GASOLINE ENGINES.—The Jacobson Machine Manufacturing Co., Warren, Pa. 3½ × 6 ins.; pp. 4.

This leaflet illustrates the type of gasoline engine made by this firm, and gives the different sizes and dimensions in tabular form.

AIR COMPRESSORS.—Rand Drill Co., New York. 3½ × 6 ins.; pp. 20.

This catalogue gives in condensed form the sizes, capacities, horse powers, weights, etc., of the different types of air compressors made by this firm.

SHEAVE BLOCKS.—Dobbie Foundry & Machine Co., Niagara Falls, N. Y. 3¼ × 6½ ins.; pp. 48.

All sizes and designs of sheave blocks, weighted blocks, snatch blocks, plain sheaves, fall line balls, etc., are illustrated, and tables given of their sizes, weights, capacities and prices.

WATER AND LIGHT PLANT.

Springfield, Tenn., July 23, 1904.

Sealed proposals will be received up to 8 o'clock p. m., Wednesday, Aug. 10, 1904, by the City Council of Springfield, Tenn., for furnishing material and constructing a Water and Light Plant, composed of the following items:

One 150-HP. simple four-valve, belted, engine; one 100-KW., three-phase, 2,300 volt alternator, with switch-board, etc.; two 66" by 16' hor. return tubular boilers; one heater and feed pump; one 50-light C. C. transformer and 30 series arc lamps; 75,000-gal. tank and tower, 120 ft. high; brick power house; one ¾ million vertical triplex motor-driven pump; one 50-HP. induction motor; one pump house; pole line and wiring system; 305 tons c.-i. pipe, 4" to 8"; 32 double-nozzle hydrants and 16 valves; transformers, etc.

Bids to be received on pipe and machinery direct from manufacturers, as well as from general contractors; construction work to be let as a whole. Certified check, 5% of bid; no check less than $100.

Alternate proposals will be received on a 100-KW steam turbine installation, provided delivery will be guaranteed within four months.

Specifications may be obtained from the City Clerk; plans on file with the Clerk and with the Engineer.

H. T. STRATTON, Mayor.
E. A. HICKS, Recorder.

GRANBERY JACKSON,
Engineer, Nashville, Tenn. 4-1t

U. S. ENGINEER OFFICE, 537 Congress Street, Portland, Me., July 18, 1904.—Sealed proposals for placing stone on outer slope of the breakwater at Rockland Harbor, Maine, will be received here until 12 M., August 18, 1904, and then publicly opened. Information furnished on application. S. W. ROESSLER, Maj., Engrs. 3-4t

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MUNICIPAL ELECTRIC PLANT.

Burlington, Vt.

Sealed proposals will be received at the office of the City Clerk of Burlington, Vermont, until 2 p. m., Aug. 22, 1904, and then opened, for the furnishing of all labor, material and equipment necessary for the installation of a complete electric plant of 250 kilowatt capacity.

Each bid must be accompanied by a certified check for $1,500, made payable to L. C. Grant, City Treasurer. Plans, specifications and instructions to bidders are on file for examination by prospective bidders at the following places:

Office of the City Clerk, Burlington, Vt.

The offices of the ENGINEERING NEWS, 220 Broadway, New York City; 170 Summer St., Boston; 1636 Monadnock Block, Chicago.

The offices of the "Electrical World and Engineer," 114 Liberty St., New York City; 1139 Monadnock Block, Chicago; 929 Chestnut St., Philadelphia; 402 Cuyahoga Building, Cleveland.

EDWARD E. MORGAN,
HYMAN G. WILLARD,
THOMAS REEVES,
Committee.

W. H. FREEDMAN,
Consulting Engineer. 4-2t

U. S. ENGINEER OFFICE, Duluth, Minn., July 8, 1904.—Sealed proposals for building vessel yard, and removing buildings at Duluth, Minn., will be received here until noon, August 8, 1904, and then publicly opened. Information on application. CHAS. L. POTTER, Capt., Engrs. 2-4t

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U. S. ENGINEER OFFICE, Vicksburg, Miss., June 18, 1904.—Sealed proposals for building Locks and Dams Nos. 4 and 6, Ouachita River, Ark., and La., will be received here until 11 a. m., Aug. 17, 1904, and then publicly opened. Information on application. H. M. ADAMS, Lieut.-Col., Engrs. 25-3t, 4-3t

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PAVING AND SEWERS.

Fremont, Ohio.

Sealed proposals will be received by the Board of Public Service of the City of Fremont, Ohio, for sewering and paving with paving brick or other suitable material, W. State St., Fremont, O., until 12 o'clock, noon, Aug. 16, 1904.

Approximate quantities: 28,688 sq. yds. paving, 10,100 ft. curb reset, 5,950 ft. of sewers—9, 15, 18 and 20-in. pipe.

Plans and specifications are on file at the City Engr.'s office.

A certified check in the sum of $500 is required with paving bid, and a check of $150 with sewer bid, as a guarantee of good faith on the part of the bidders.

C. H. BAUMAN,
Clerk.

GEO. W. LESHER,
City Engineer. 4-1t

SEWERS.

Lewistown, Pa.

Sealed proposals will be received at the office of the Sewer Committee, in the Borough of Lewistown, Pa., until 2 o'clock p. m. on the twentieth day of August, 1904, for constructing sewers in Lewistown, Pa. (About 93,000 feet.)

Terms of proposals, copies of the specifications and instructions to contractors may be obtained of the engineer, and the plans and profiles may be seen at his office.

Each bid must be accompanied by a deposit of $1,000 as a guarantee of the good faith of the bidder.

The Sewer Committee reserve the right to reject any or all bids.

Address
J. MURRAY AFRICA,
Engineer, Lewistown, Pa.

H. C. SMITH,
Clerk of Council. 4-2t

WATER-WORKS.

Eldridge, Iowa.

Sealed bids will be received by the Town Clerk, Town of Eldridge, Ia., until Aug. 8, 6 o'clock p. m., for the following:

Metal tower and 55,000 gal. capacity 3" cypress tank.

12-HP. gasoline engine and pump (deep well working head).

60-ton cast-iron mains, hydrants, etc.

Trenching, laying mains and concrete foundations.

Bids will be received for all or part of system, as per plans and specifications on file with W. H. Kimball, C. E., Davenport, Ia., or Hugo Kuhl, Town Clerk, Eldridge, Ia.

4-1t

5-FOOT SEWER.

Springfield, Ill., July 23, 1904.

Sealed proposals will be received at the office of the Park Board of Springfield, Ill., until 2.30 o'clock p. m., Aug. 17, 1904, for the construction of about 1,835 ft. of 5-ft. circular sewer, either brick or concrete, as may be determined. Plans may be seen and specifications and blank proposals obtained at the office of the Engineer of the Board in the City Hall. Each proposal must be made on the blanks furnished by the Board, and must be accompanied by a certified check for five hundred dollars ($500). The Board reserves the right to reject any or all bids.

ARTHUR HAY,
4-1t Secretary-Engineer

OFFICE OF THE COMMISSIONERS, D. C., Washington, July 25, 1904.—Sealed proposals will be received at this office until 12 o'clock m., Aug. 22, 1904, for constructing a portion of the Sewage Disposal System, B St. and New Jersey Ave. Trunk Sewer in the District of Columbia. Specifications and blank forms of proposal may be obtained at this office. The right is reserved to reject any and all bids or parts of bids. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 4-2t

For other Proposal Advertisements see pages 35, 36, 37, of Advertisements and Construction News pages 46.